

Rittal
**Product
Overview
2004**



FRIEDHELM LOH GROUP



The exact solution – for your success

The Rittal Product Overview contains all the key product and order data for our extensive product range, condensed into 88 pages. Here, you will find the exact solution you are looking for. Select your individual variant from this modular diversity. With its superbly coordinated components, Rittal offers a unique and comprehensive range to solve virtually all requirements. This is supplemented by one of the most extensive ranges of accessories catering for your every need. (Detailed information may be found in our latest Catalogue or on our website). Capitalise on Rittal's power and competence for your own specific success.





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Our achievements are your advantages . . .

. . . The Rittal value-added package

Rittal is present all around the globe and serves all major markets. 20 production sites on 5 continents supply 45 subsidiaries, over 70 agents and 100 delivery centres worldwide.

State-of-the-art data technology connects the Rittal distribution centres and enables super-fast communication. "Off-the-shelf, immediately" is one of Rittal's original principles. Over 8000 standard products are available for delivery worldwide.



When it comes to service, you can depend on Rittal: From a simple enclosure to a fully configured and tested system, with additional services such as customer-specific assembly, we work tirelessly to offer our customers the greatest possible benefits. Expert advisors, both in-house and in the external sales force, will be happy to help you find an individual solution.



Solution diversity through system platforms

Our successful platform strategy forms the basis for our comprehensive standard range. Perfect solutions for various applications and to suit individual customer requirements are configured cost-effectively from mass production.

Pre-configuration saves time

Rittal products are perfectly prepared for immediate use. This saves assembly and ordering time, as well as warehousing costs. Fast assembly of system accessories is an added bonus.

Complete, thanks to system integration

You tell us your requirements, and we supply you with an individual complete solution, e.g. with co-ordinated climate control, power supply and security management up to system integration Level 4. All from Rittal, all from a single source.

Global proximity with a local presence

Our experiences of international markets and the global availability of our products and services lead to holistic customer solutions.



Secure your competitive lead with a quality advantage

International approvals and our own accredited laboratories – the result? A guaranteed standard of quality available to customers worldwide.

Perfect solutions through planning expertise

Rittal's expert advisers know their stuff – be it EMC protection, earth-quake protection, climate control or electronic components, all technical questions relating to a particular customer requirement are expertly answered.

Eliminate the risks with a security advantage

Cut operating costs and administration, and ensure simple monitoring of all security-relevant parameters with comprehensive rack security concepts: Climate control, power management and access control.

Infinite possibilities, thanks to extensive system accessories

You will find the accessories on our website.



Industrial enclosures . . .

. . . The great advantage of Rittal's extensive range of enclosures:

Perfect, cost-effective solutions to suit every application. All in all, the wide range of sizes, the application-oriented choice of materials, the tailoring to specific application areas, the modular range of system accessories and compatibility with all other Rittal lines offers Rittal customers a competitive lead from a single source.

Perfect holistic solutions

- Small boxes
- Compact enclosures
- Large enclosures
- Console systems
- Command Panel systems
- Industrial Workstations

An extensive range of accessories and detailed information may be found in the main catalogue or on our website

Polycarbonate terminal boxes PK

Materials and scope of supply:

Enclosure and grey lid made from fibreglass-reinforced polycarbonate, transparent lid made from polycarbonate with all-round foamed-in PU seal, 4 cover screws made from polyamide (six with PK 9519.XXX and PK 9522.XXX).

Colour:

Light-grey RAL 7035

Protection category:

IP 66 to EN 60 529/10.91



PK 9530.000 and PK 9531.000 with one cable gland

Model No. PK grey lid	9530.000	9531.000	9500.000	9501.000	9502.000	9503.000	9504.000	9505.000	9506.000	9507.000
Model No. PK transparent lid	–	–	9500.100	9501.100	9502.100	9503.100	9504.100	9505.100	9506.100	9507.100
Width mm	50	50	65	65	94	94	94	94	110	110
Height mm	52	65	65	65	65	65	94	94	110	110
Depth mm	35	35	57	81	57	81	57	81	66	90

Model No. PK grey lid	9508.000	9509.000	9510.000	9511.000	9512.000	9513.000	9514.000	9515.000	9516.000	9517.000
Model No. PK transparent lid	9508.100	9509.100	9510.100	9511.100	9512.100	9513.100	9514.100	9515.100	9516.100	9517.100
Width mm	130	130	130	130	180	180	180	180	180	182
Height mm	94	94	130	130	94	94	110	110	110	180
Depth mm	57	81	75	99	57	81	90	111	165	90

Model No. PK grey lid	9518.000	9519.000	9520.000	9521.000	9522.000	9523.000	9524.000
Model No. PK transparent lid	9518.100	9519.100	9520.100	9521.100	9522.100	9523.100	9524.100
Width mm	182	182	254	254	254	360	360
Height mm	180	180	180	180	180	254	254
Depth mm	111	165	90	111	165	111	165

Cast aluminium enclosures GA

Material:

Enclosure and lid made from cast aluminium, lid with neoprene cord seal.

Supply includes:

2 or 4 cover screws, captive, 2 or 4 screws for attaching support rails, mounting plates etc., 1 screw for PE conductor connection.

Surface finish:

Powder coated in RAL 7001

Protection category:

IP 66 to EN 60 529/10.91, complies with NEMA 4.



Model No. GA	9100.210	9101.210	9104.210	9102.210	9105.210	9108.210	9103.210	9112.210	9106.210	9116.210
Packs of	6	5	1	3	1	1	2	1	1	1
Width mm	50	58	75	98	125	122	150	160	175	200
Height mm	45	64	80	64	80	120	64	160	80	230
Depth mm	30	36	57	36	57	80	36	90	57	110

Model No. GA	9110.210	9107.210	9113.210	9117.210	9118.210	9119.210	9111.210	9114.210
Packs of	1	1	1	1	1	1	1	1
Width mm	220	250	260	280	330	330	360	360
Height mm	120	80	160	230	230	230	122	160
Depth mm	90	57	90	110	110	180	80	90

Terminal boxes KL

Material:

Sheet steel
Case and cover:
1.25 mm;
Case 1.38 mm with
KL 1507.210 to KL 1513.210

Supply includes:

Enclosure, cover with all-round foamed-in PU seal and cover screws, including plastic bushes.
KL with gland plate: additionally with gland apertures, sheet steel gland plates with seals and assembly parts.

Surface finish:

Case and cover:
Dipcoat primed in RAL 7044, powder-coated in textured RAL 7032 on the outside

Protection category:

KL with gland plate:
IP 55 to EN 60 529/10.91
Complies with NEMA 12.
KL without gland plate:
IP 66 to EN 60 529/10.91
Complies with NEMA 4.

Stainless steel variant

Material:

Case and cover: 1.25 mm
Stainless steel 1.4301

Surface finish:

Case and cover:
Brushed, grain 180

Protection category:

IP 66 to EN 60 529/10.91
Complies with NEMA 4x.



With gland plate

Model No. KL	1530.210	1531.210	1535.210	1532.210	1536.210	1539.210	1533.210	1537.210	1534.210	1538.210
Width mm	300	300	300	400	400	400	500	500	600	600
Height mm	150	200	300	200	300	400	200	300	200	300
Depth mm	120	120	120	120	120	120	120	120	120	120

Model No. KL	1540.210	1542.210	1541.210
Width mm	600	800	800
Height mm	400	200	400
Depth mm	120	120	120

To order in primed RAL 7044 please add the extension .310 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .510. Delivery times available on request.

Without gland plate

Model No. KL	1514.210	1500.210	1528.210	1529.210	1516.210	1502.210	1515.210	1501.210	1517.210	1503.210
Width mm	150	150	200	200	200	200	300	300	300	300
Height mm	150	150	150	150	200	200	150	150	200	200
Depth mm	80	120	80	120	80	120	80	120	80	120

Model No. KL	1507.210	1589.210	1518.210	1504.210	1508.210	1511.210	1505.210	1509.210	1519.210	1506.210
Width mm	300	400	400	400	400	400	500	500	600	600
Height mm	300	150	200	200	300	400	200	300	200	200
Depth mm	120	120	80	120	120	120	120	120	80	120

Model No. KL	1510.210	1512.210	1527.210	1513.210
Width mm	600	600	800	800
Height mm	300	400	200	400
Depth mm	120	120	120	120

To order in primed RAL 7044 please add the extension .310 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .510. Delivery times available on request.

Stainless steel without gland plate

Model No. KL	1521.010	1523.010	1522.010	1524.010	1526.010	1525.010
Width mm	150	200	300	300	300	400
Height mm	150	200	150	200	300	200
Depth mm	80	80	80	80	120	120

For terminal boxes in 1.4404 (AISI 316L), please add extension .510 to the Model No. Delivery times available on request.

Premium Line KL – protection category IP 69K

Material:

Stainless steel 1.4301, 1.5 mm

Supply includes:

Case and cover, screw-fastened optionally with interior

screws with plastic stoppers or exterior hex screws. Slot-free seal, pressure washer-resistant to DIN 40 050-9/5.93, for discerning requirements in the food and hygiene sector.

Surface finish:

Brushed, grain 240

Protection category:

IP 69K to DIN 40 050-9/5.93 (pressure washer-resistant)



Model No. KL	1024.010	1024.020	1024.030	1024.040
Width mm	150	150	300	400
Height mm	150	150	200	300
Depth mm	80	120	120	120

Accessories

Mounting plate	1024.910	1024.910	1024.920	1024.930
Mounting bracket for support rails	1024.810	1024.810	1024.820	1024.830

To order Premium Line KL in 1.4404 (AISI 316L), please add the extension .5X0 to the Model No. Delivery times available on request.

E-Box EB

Material:
Sheet steel
Enclosure: 1.25 mm;
1.38 mm for EB 1555.600,
EB 1556.600, EB 1577.600
to EB 1579.600

Supply includes:
Enclosure with mounting plate,
door including 180° hinge and
cam lock with double-bit insert.

Surface finish:
Enclosure and door:
Dipcoat primed in RAL 7044,
powder coated in textured
RAL 7032 on the outside
Mounting plate: Zinc-plated

Protection category:
IP 66 to EN 60 529/10.91
Complies with NEMA 4.



Model No. EB	1551.600	1553.600	1545.600	1548.600	1546.600	1549.600	1552.600	1554.600	1547.600	1550.600
Width mm	150	150	150	150	200	200	200	200	200	200
Height mm	150	150	300	300	200	200	300	300	400	400
Depth mm	80	120	80	120	80	120	80	120	80	120

Model No. EB	1557.600	1555.600	1556.600	1577.600	1578.600	1579.600
Width mm	200	300	300	300	300	300
Height mm	500	300	400	400	600	800
Depth mm	120	120	120	155	155	155

Bus enclosures BG

For the secure, dense packaging for all field bus modules located directly at the machine and system.

Made from sheet steel (painted in textured RAL 7032) or brushed stainless steel, for use in the chemical or food industries.



Detailed information may be found in the main catalogue or on our website

Compact enclosures AE

Material:
Sheet steel
Enclosure: 1.50 mm;
1.25 mm for width 200 mm;
1.38 mm for width 300/380/
400 mm (except AE 1338.600)
and for AE 1039.600,
AE 1050.600, AE 1060.600,
AE 1076.600.
Door: 2.0 mm;
1.5 mm for height 300/380/
400 mm and for AE 1045.600;
1.75 mm for height 600 mm
and for AE 1050.600,
AE 1350.600, AE 1039.600,
AE 1339.600
Mounting plate: 3.0 mm

Supply includes:
Enclosure of all-round solid construction,
AE single-door:
with 1 gland plate in the enclosure base, right-hand door hinge, may be swapped to opposite side (except with width 200 mm), with 1 cam lock (for height 500 – 1000 mm with 2 cam locks), foamed-in door seal, zinc-coated mounting plate.
AE two-door:
with 2 gland plates in the enclosure base, with 2 cam locks, foamed-in door seal, zinc-coated mounting plate.
From a height of 1200 mm with 3-point lock system, prepared for use of the Ergoform-S lock system.

Surface finish:
Enclosure and door:
Dipcoat primed in RAL 7044,
powder coated in textured
RAL 7032 on the outside
Mounting plate: Zinc-plated

Protection category:
AE single-door:
IP 66 to EN 60 529/10.91
Complies with NEMA 4
(from a width of 300 mm up to a height of 600 mm)
Complies with NEMA 12
(for a width of 200 mm)
IP 56 to EN 60 529/10.91
Complies with NEMA 4
(for a width of 700 – 1000 mm)
Complies with NEMA 12
(for a height of 1200 mm)
AE two-door:
IP 55 to EN 60 529/10.91
Complies with NEMA 12.



Model No. AE	1032.600	1035.600	1033.600	1034.600	1030.600	1031.600	1380.600	1038.600	1338.600	1045.600	1050.600
Width mm	200	200	300	300	380	380	380	380	380	400	500
Height mm	300	300	300	400	300	300	380	600	600	500	500
Depth mm	120	155	210	210	155	210	210	210	350	210	210
Doors	1	1	1	1	1	1	1	1	1	1	1

Model No. AE	1350.600	1057.600	1039.600	1339.600	1060.600	1360.600	1076.600	1376.600	1058.600	1090.600	1260.600
Width mm	500	500	600	600	600	600	600	600	600	600	600
Height mm	500	700	380	380	600	600	760	760	800	1000	1200
Depth mm	300	250	210	350	210	350	210	350	250	250	300
Doors	1	1	1	1	1	1	1	1	1	1	1

Model No. AE	1077.600	1073.600	1180.600	1280.600	1100.600	1130.600	1110.600	1213.600	1114.600
Width mm	760	760	800	800	1000	1000	1000	1000	1000
Height mm	760	760	1000	1200	760	760	1000	1200	1400
Depth mm	210	300	300	300	210	300	300	300	300
Doors	1	1	1	1	2	2	2	2	2

With glazed door/operating panel

Material:

Enclosure: Sheet steel
Operating panel:
Operating panel plate and
frame aluminium
Glazed door: Aluminium frame
and glazed acrylic pane

Supply includes

AE with glazed door:

Enclosure of all-round solid
construction,
1 gland plate in the enclosure
base,
Mounting plate: Zinc-plated;
with 34 mm glazed door:

Aluminium frame, acrylic
glazed panel, hinges, plastic
handle with lock insert
no. 3524 E.

Supply includes

AE with operating panel:

Enclosure of all-round solid
construction,
1 gland plate in the enclosure
base, double-bit cam lock in
left-hand side panel,
Mounting plate: Zinc-plated,
r/h hinged aluminium frame,
operating panel plate.

Surface finish:

Enclosure:
Dipcoat primed in RAL 7044,
powder coated in textured
RAL 7032 on the outside
Aluminium parts:
Natural anodised
Mounting plate: Zinc-plated

Protection category:

IP 54 to EN 60 529/10.91



With glazed door

Model No. AE	1050.650	1350.650	1039.650	1339.650	1060.650	1360.650	1076.650	1376.650
Width mm	500	500	600	600	600	600	600	600
Height mm	500	500	380	380	600	600	760	760
Depth mm	210	300	210	350	210	350	210	350

With operating panel

Model No. AE	1030.680	1031.680	1380.680	1038.680	1338.680	1050.680	1350.680	1039.680	1339.680	1060.680	1360.680
Width mm	380	380	380	380	380	500	500	600	600	600	600
Height mm	300	300	380	600	600	500	500	380	380	600	600
Depth mm	155	210	210	210	350	210	300	210	350	210	350

Stainless steel variant

Material:

Stainless steel 1.4301
Enclosure and door:
Stainless steel
Mounting plate:
Sheet steel
Cam lock:
Die-cast zinc, nickel-plated

Supply includes:

Enclosure, door(s) with all-
round foamed-in PU seal,
mounting plate

Surface finish:

Enclosure and door:
Brushed, grain 180
Mounting plate: Zinc-plated

Protection category to EN 60 529/10/91:

IP 66 for
AE 1002.600 – AE 1017.600
Complies with NEMA 4x
IP 55 for
AE 1018.600/AE 1019.600
Complies with NEMA 12.



Model No. AE	1002.600	1005.600	1004.600	1006.600	1008.600	1007.600	1013.600	1009.600	1010.600	1012.600
Width mm	200	300	380	380	380	500	500	600	600	600
Height mm	300	380	300	380	600	500	500	380	600	760
Depth mm	155	210	155	210	210	210	300	210	210	210
Doors	1	1	1	1	1	1	1	1	1	1

Model No. AE	1014.600	1016.600	1017.600	1018.600	1019.600
Width mm	760	800	800	1000	1000
Height mm	760	1000	1200	1000	1200
Depth mm	300	300	300	300	300
Doors	1	1	1	2	2

To order compact enclosures in 1.4404 (AISI 316L), please add the extension .500 to the Model No. Delivery times available on request.

Compact enclosures AE – protection category IP 69K

Material:

Enclosure and door:
Sheet steel, 1.5 mm
Mounting plate:
Sheet steel

Supply includes:

Enclosure and door pre-treated
for a high level of corrosion
protection, spray-finished in
textured RAL 7032, pressure
washer-resistant to DIN 40 050-
9/5.93 thanks to a specially
protected silicone seal.
Mounting plate, fasteners and
hinge secured in a vibration-
resistant way.

Surface finish:

Enclosure and door:
Aluminium zinc coating,
primed, powder-coated on the
outside in textured RAL 7032
Mounting plate: Zinc-plated

Protection category:

IP 69K to DIN 40 050-9/5.93
(pressure washer-resistant)



Model No. AE	1101.010	1101.020	1101.030	1101.040
Width mm	230	400	400	650
Height mm	330	400	650	650
Depth mm	155	250	250	250
Doors	1	1	1	1
Accessories				
Interior door	1101.910	1101.920	1101.930	1101.940

Compact enclosures AK

Material:
Sheet steel
Enclosure: 1.5 mm
Door(s): 2 mm
Mounting plate: 3 mm

Supply includes:
Enclosure of all-round solid construction,
AK single-door:
r/h door hinge, can be changed to opposite side.
AK two-door:
Lockable door on right, foamed-in door seal, drilled holes provided for eyebolts, Mounting plate, Two-piece gland plates.

Surface finish:
Enclosure and door(s): Dipcoat primed in RAL 7044, powder coated in textured RAL 7032 on the outside
Mounting plate and gland plates: Zinc-plated
Protection category:
IP 55 to EN 60 529/10.91
Complies with NEMA 12.



Model No. AK	1646.600	1648.600	1650.600	1647.600	1652.600
Width mm	600	800	1000	1000	1200
Height mm	1200	1200	1200	1400	1200
Depth mm	400	400	400	400	400
Doors	1	1	2	2	2

To order in primed RAL 7044 please add the extension .800 to the Model No., and for versions spray-finished in RAL 7035, please use extension .500. Delivery times available on request.

Plastic enclosures KS

Material:
Enclosure and door:
Fibreglass-reinforced unsaturated polyester
Mounting plate:
KS 1423.600 to KS 1434.600:
Sheet steel 2 mm
KS 1444.600 to KS 1467.600:
Sheet steel 2.5 mm
KS 1468.600, 1480.600, 1400.600, 1469.600, 1479.600:
Sheet steel 3 mm
For KS with viewing window:
3 mm impact-resistant glazed acrylic, with all-round rubber cable clamp strip

Supply includes:
Enclosure, sealed all round, r/h door hinge, may be swapped to l/h side by rotating the enclosure (with single-door version only),
Mounting plate,
Door with all-round foamed-in PU seal, double seal at the top and bottom edge of the door (integral rain protectin strip), press-fitted C sections at the sides for infinitely variable depth adjustment of the mounting plate (accessory),
KS 1400.600 additionally with removable centre bar in the enclosure.

Surface finish:
Enclosure and door:
not subsequently treated because plastic is dyed, similar to RAL 7032
Mounting plate: Zinc-plated
Protection category:
KS without viewing window:
IP 66 to EN 60 529/10.91, NEMA 4x is met in KS 1480.600 and KS 1400.600, IP 56 to EN 60 529/10.91, complies with NEMA 12.
KS with viewing window:
IP 56 to EN 60 529/10.91, complies with NEMA 12.



Without viewing window

Model No. KS	1423.600	1432.600	1434.600	1444.600	1446.600	1453.600	1466.600	1468.600	1480.600	1400.600
Width mm	200	250	300	400	400	500	600	600	800	1000
Height mm	300	350	400	400	600	500	600	800	1000	1000
Depth mm	150	150	200	200	200	300	200	300	300	300
Doors	1	1	1	1	1	1	1	1	1	2

With viewing window

Model No. KS	1448.600	1449.600	1454.600	1467.600	1469.600	1479.600
Width mm	400	400	500	600	600	800
Height mm	400	600	500	600	800	1000
Depth mm	200	200	300	200	300	300
Doors	1	1	1	1	1	1

Note:
To permanently maintain the visual appearance, we recommend spray finishing as weather protection.

Exclusive enclosures ES 5000

Material:

Sheet steel
Enclosure: 1.8 mm
Door(s): 2 mm
Rear panel and gland plates:
1.5 mm
Mounting plate: 3 mm

Supply includes:

Enclosure, solid top and sides
ES single-door:
R/h door hinge, may be swapped to opposite side
ES two-door:
Lockable door on right, rear panel, removable (two-piece with ES 5784.600 and ES 5905.600),
Mounting plate,
Three-piece gland plates
Eyebolts:
2 unfitted up to a width of 800 mm (4 fitted from a width of 1000 mm)

Surface finish:

Enclosure, door and rear panel:
Dipcoat primed in RAL 7044, powder coated in textured RAL 7032 on the outside,
Mounting plate and gland plates: Zinc-plated

Protection category:

ES single-door:
IP 56 to EN 60 529 / 10.91, complies with NEMA 12
ES two-door:
IP 55 to EN 60 529/10.91, complies with NEMA 12



Model No. ES	5665.600	5684.600	5605.600	5865.600	5884.600	5805.600	5084.600	5080.600	5265.600	5284.600
Width mm	600	600	600	800	800	800	1000	1000	1200	1200
Height mm	1600	1800	2000	1600	1800	2000	1800	1800	1600	1800
Depth mm	500	400	500	500	400	500	400	400	500	400
Doors	1	1	1	1	1	1	1	2	2	2

Model No. ES	5205.600	5784.600	5905.600
Width mm	1200	1600	1800
Height mm	2000	1800	2000
Depth mm	500	400	500
Doors	2	2	2

To order in primed RAL 7044 please add the extension .800 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .500. Delivery times available on request.

Stainless steel variant

Material:

Stainless steel 1.4301
Enclosure: 1.8 mm
Door(s): 2.0 mm
Rear panel: 1.5 mm
Mounting plate:
3.0 mm sheet steel

Supply includes:

Enclosure, solid top and sides, removable rear panel, r/h door hinge, may be swapped to opposite side, except ES 5455.600, 130° hinges, Mounting plate, Three-piece gland plates.

Surface finish:

Enclosure, rear panel and doors: Brushed, grain 240
Mounting plate: Zinc-plated

Protection category:

IP 56 to EN 60 529/10.91 (single-door ES),
IP 55 to EN 60 529/10.91 (two-door ES),
complies with NEMA 12.

Model No. ES	5450.600	5451.600	5452.600	5453.600	5454.600	5455.600
Width mm	600	600	800	800	1000	1200
Height mm	1600	1800	1800	2000	1800	2000
Depth mm	400	500	500	600	400	500
Doors	1	1	1	1	1	2

To order enclosures in 1.4404 (AISI 316L), please add the extension .500 to the Model No. Delivery times available on request.

Top enclosure system TS 8

Material:

Sheet steel
Enclosure frame: 1.5 mm
Door(s): 2 mm
Roof, rear panel and gland plates: 1.5 mm
Mounting plate: 3 mm

Supply includes:

Enclosure frame, door(s), roof, rear panel, mounting plate, three-piece gland plates (four-piece with depth 800 mm), 2 support strips mounted in the enclosure depth (from a depth of 600 mm)

Surface finish:

Enclosure frame:
Dipcoat primed in RAL 7044,
Door(s), roof, rear panel
Dipcoat primed in RAL 7044,
powder coated in textured
RAL 7032 on the outside,
Mounting plate and gland plates: Zinc-plated

Protection category:

IP 55 to EN 60 529/10.91,
complies with NEMA 12
(except TS 8485.610,
TS 8486.610, TS 8405.610,
TS 8406.610).



Model No. TS	P. of	8485.610 ¹⁾	8486.610 ¹⁾	8405.610 ¹⁾	8406.610 ¹⁾	8645.600	8665.600	8684.600	8685.600	8686.600	8604.600		
Width mm		400	400	400	400	600	600	600	600	600	600		
Height mm		1800	1800	2000	2000	1400	1600	1800	1800	1800	2000		
Depth mm		500	600	500	600	500	500	400	500	600	400		
Doors		1	1	1	1	1	1	1	1	1	1		
Side panels		2	8185.200	8186.200	8105.200	8106.200	8145.200	8165.200	8184.200	8185.200	8186.200	8104.200	
Base/plinth	Components front and rear	Height 100 mm	1 set	8601.400	8601.400	8601.400	8601.400	8601.600	8601.600	8601.600	8601.600	8601.600	
		Height 200 mm	1 set	8602.400	8602.400	8602.400	8602.400	8602.600	8602.600	8602.600	8602.600	8602.600	
	Trim panels, sides	Height 100 mm	1 set	8601.050	8601.060	8601.050	8601.060	8601.050	8601.050	8601.040	8601.050	8601.060	8601.040
		Height 200 mm	1 set	8602.050	8602.060	8602.050	8602.060	8602.050	8602.050	8602.040	8602.060	8602.060	8602.040

¹⁾ Without tubular door frame, mounting plate and gland plates. To order in primed RAL 7044 please add the extension .810 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .510.

Model No. TS	P. of	8605.600	8606.600	8608.600	8626.600	8845.600	8865.600	8884.600	8885.600	8886.600	8804.600		
Width mm		600	600	600	600	800	800	800	800	800	800		
Height mm		2000	2000	2000	2200	1400	1600	1800	1800	1800	2000		
Depth mm		500	600	800	600	500	500	400	500	600	400		
Doors		1	1	1	1	1	1	1	1	1	1		
Side panels		2	8105.200	8106.200	8108.200	8126.200	8145.200	8186.200	8184.200	8185.200	8186.200	8104.200	
Base/plinth	Components front and rear	Height 100 mm	1 set	8601.200	8601.600	8601.600	8601.600	8601.800	8601.800	8601.800	8601.800	8601.800	
		Height 200 mm	1 set	8602.200	8602.600	8602.600	8602.600	8602.800	8602.800	8602.800	8602.800	8602.800	
	Trim panels, sides	Height 100 mm	1 set	8601.050	8601.060	8601.080	8601.060	8601.050	8601.050	8601.040	8601.050	8601.060	8601.040
		Height 200 mm	1 set	8602.050	8602.060	8602.080	8602.060	8602.050	8602.050	8602.040	8602.050	8602.060	8602.040

Model No. TS	P. of	8805.600	8806.600	8808.600	8826.600	8880.600	8881.600	8084.600	8080.600	8005.600	8006.600	
Width mm		800	800	800	800	800	800	1000	1000	1000	1000	
Height mm		2000	2000	2000	2200	1800	1800	1800	1800	2000	2000	
Depth mm		500	600	800	600	500	600	400	400	500	600	
Doors		1	1	1	1	2	2	1	2	2	2	
Side panels		2	8105.200	8106.200	8108.200	8126.200	8185.200	8186.200	8184.200	8184.200	8105.200	8106.200
Base/plinth	Components front and rear	Height 100 mm	1 set	8601.800	8601.800	8601.800	8601.800	8601.800	8601.800	8601.000	8601.000	8601.000
		Height 200 mm	1 set	8602.800	8602.800	8602.800	8602.800	8602.800	8602.800	8602.000	8602.000	8602.000
	Trim panels, sides	Height 100 mm	1 set	8601.050	8601.060	8601.080	8601.060	8601.050	8601.050	8601.040	8601.040	8601.050
		Height 200 mm	1 set	8602.050	8602.060	8602.080	8602.060	8602.050	8602.060	8602.040	8602.040	8602.050

Model No. TS	P. of	8245.600	8265.600	8284.600	8285.600	8286.600	8204.600	8205.600	8206.600	8208.600	8226.600	
Width mm		1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	
Height mm		1400	1600	1800	1800	1800	2000	2000	2000	2000	2200	
Depth mm		500	500	400	500	600	400	500	600	800	600	
Doors		2	2	2	2	2	2	2	2	2	2	
Side panels		2	8145.200	8165.200	8184.200	8185.200	8186.200	8104.200	8105.200	8106.200	8108.200	8126.200
Base/plinth	Components front and rear	Height 100 mm	1 set	8601.200	8601.200	8601.200	8601.200	8601.200	8601.200	8601.200	8601.200	8601.200
		Height 200 mm	1 set	8602.200	8602.200	8602.200	8602.200	8602.200	8602.200	8602.200	8602.200	8602.200
	Trim panels, sides	Height 100 mm	1 set	8601.050	8601.050	8601.040	8601.050	8601.060	8601.040	8601.050	8601.060	8601.080
		Height 200 mm	1 set	8602.050	8602.050	8602.040	8602.050	8602.060	8602.040	8602.050	8602.060	8602.080

To order in primed RAL 7044 please add the extension .800 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .500. Delivery times available on request.

Stainless steel variant

Material:

Stainless steel 1.4301
Enclosure frame: 1.5 mm
Door(s): 2.0 mm
Roof, rear panel and gland plates: 1.5 mm
Mounting plate:
3 mm (sheet steel)

Supply includes:

Enclosure frame, door(s), roof, rear panel, mounting plate, three-piece gland plates, 2 support strips mounted in the enclosure depth (only with a depth of 600 mm)

Surface finish:

Enclosure frame: Bare
Door(s), roof, rear panel: Brushed on the outside, grain size 240
Mounting plate: Zinc-plated
Gland plates: Bare

Protection category:

IP 55 to EN 60 529/10.91, complies with NEMA 12.



Model No. TS	P. of	8454.600	8457.600	8455.600	8452.600	8450.600	8456.600	8453.600	8451.600		
Width mm		800	600	800	600	800	1200	1200	1200		
Height mm		1800	1800	1800	2000	2000	1800	1800	2000		
Depth mm		400	500	500	600	600	400	500	600		
Doors		1	1	1	1	1	2	2	2		
Side panels	2	8700.840	8700.850	8700.850	8700.060	8700.060	8700.840	8700.850	8700.060		
Base/plinth	Components front and rear	Height 100 mm	1 set	8701.800	8701.600	8701.800	8701.600	8701.800	8701.800	8701.200	8701.200
		Height 200 mm	1 set	8702.800	8702.600	8702.800	8702.600	8702.800	8702.800	8702.200	8702.200
	Trim panels, sides	Height 100 mm	1 set	8701.040	8701.050	8701.050	8701.060	8701.060	8701.040	8701.050	8701.060
		Height 200 mm	1 set	8702.040	8702.050	8702.050	8702.060	8702.060	8702.040	8702.050	8702.060
Base/plinth trim, modular, SO	4	2907.000	2908.000	2908.000	2913.000	2913.000	2907.000	2908.000	2913.000		

To order enclosures in 1.4404 (AISI 316L), please add the extension .500 to the Model No. Delivery times available on request.

PC enclosure and case systems

Accommodating all your computer equipment, from the monitor, computer system, printer and keyboard through to the mouse, becomes child's play with Rittal's PC enclosure systems.

The result is perfect protection from humidity and dirt, temperature fluctuations and unauthorised access. What is more, when it comes to ergonomics, design and accessory diversity, these systems will exceed your expectations.



Detailed information can be found in the main catalogue or on our website

Console systems AP

Simple selection of your desired combination.

The elements of the AP console system in depths 400 mm (blue) and 500 mm (green) may be combined in numerous user-specific variants, as shown in the diagram. The table opposite allows you to find the order number for your selection immediately.

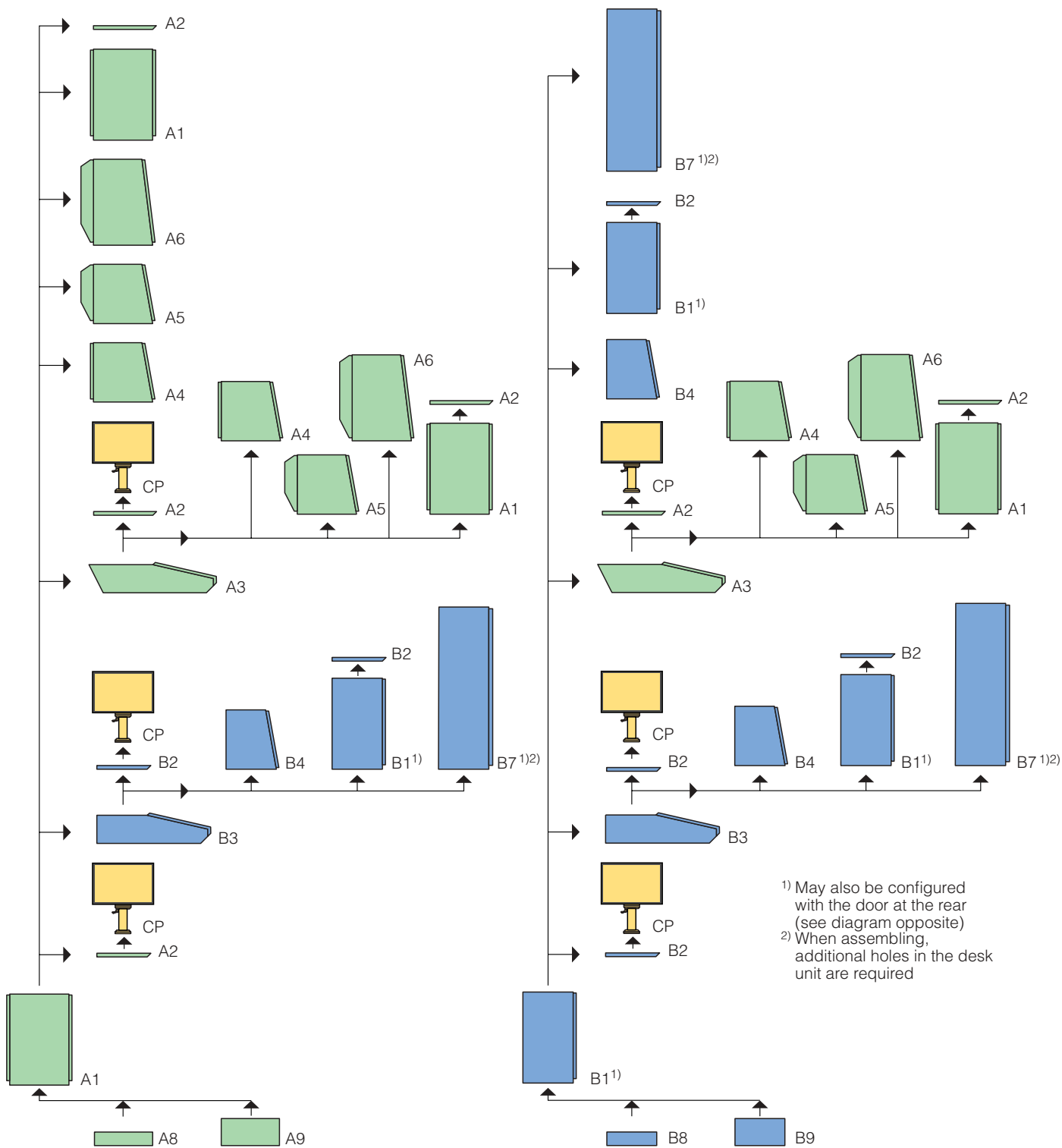
Modern, slimline HMI (human/machine interfaces) or displays may also be used.



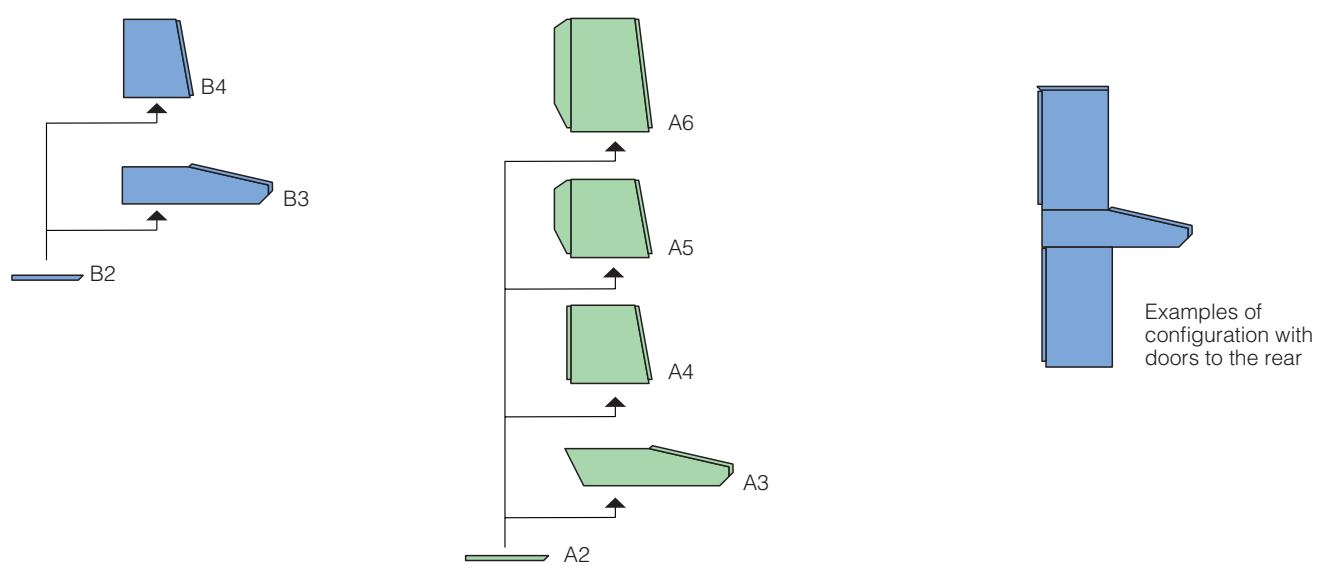
Integrated into the stylish, tailor-made command panel systems VIP 6000, Optipanel and Compact Panel (yellow), this produces a wide range of modern extension options for the classic AP console systems.















Trim plate (A2/B2) with reinforcement and cutout for support arm systems available on request.

Specify the dimensions for positioning on the trim plate and the Model No. of the enclosure attachment.



Combination options for the modules



D = 500 mm				Height mm	D = 400 mm			
Width	800	1200	1600		Width	800	1200	1600
	Model No.	Model No.	Model No.		Model No.	Model No.	Model No.	
AK enclosure								
				1200		1648.600	1652.600	
Console								
	2647.600	2648.600	2649.600	630 with deep rear door				
Console								
	2662.600	2663.600	2664.600	430 with deep rear door				
Console								
	2614.600	2644.600	2654.600	430		2612.600	2642.600	2652.600
Desk unit								
	2613.200	2643.200	2653.200	200		2611.200	2641.200	2651.200
Trim panel								
	2616.200	2646.200	2656.200	28		2615.200	2645.200	2655.200
Pedestal								
	2610.600	2640.600	2650.600	670		2600.600	2620.600	2630.600
Base/plinth								
	2842.200	2852.200	2864.200	200		2902.200	2922.000	2962.200
	2841.200	2851.200	2863.200	100		2901.200	2921.200	2961.200

Multi-variable

The components of the AP console system can be combined in many user-specific variants. Modern flat screens and operator panels can also be used. Integrated into the stylish command panel systems VIP 6000, Optipanel and Compact Panel, this produces a wide range of modern extension options for the classic AP console systems.

Combination options, see page 14 – 15.

Protection category:
IP 55 to EN 60 529/10.91
Complies with NEMA 12 (provided the appropriate parts are combined).

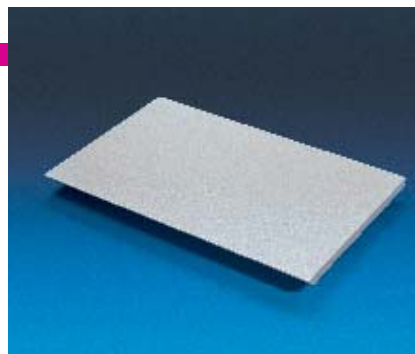
Trim panel

To finish off pedestals, desk units or consoles.

Material:
Sheet steel, spray-finished, 1.5 mm

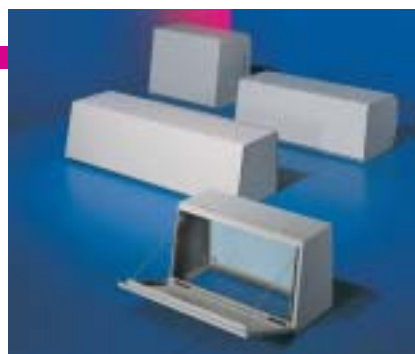
To fit		Colour RAL	Model No. AP
Width mm	Depth mm		
800	400	7032	2615.200
1200			2645.200
1600			2655.200
800	500		2616.200
1200			2646.200
1600			2656.200

To order in primed RAL 7044 please add the extension .300 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .500. Delivery times available on request.



Consoles

Supply includes	Material Sheet steel	Colour RAL	Surface finish
Enclosure open at bottom	1.5 mm	7032	Dipcoat primed in RAL 7044, powder coated on the outside in textured RAL 7032
Door(s) hinged at bottom with retaining cords at the front. For depth 500 mm: with door(s) at rear	2.0 mm		
Mounting plate. For depth 500 mm: adjustable on a 25 mm pitch pattern	3.0 mm		Zinc-plated



Width in mm	800	1200	1600	800	1200	1600	800	1200	1600	800	1200	1600
Height in mm	430			430			430			630		
Depth in mm	400			500			500 with deep rear door					
Model No. AP	2612.600	2642.600	2652.600	2614.600	2644.600	2654.600	2662.600	2663.600	2664.600	2647.600	2648.600	2649.600
Number of lids	1	1	1	2	2	2	2	2	2	2	2	2
Weight (kg)	22.5	40.0	52.5	30.6	48.0	62.4	38.7	56.0	72.3	47.8	64.4	86.8

To order in primed RAL 7044 please add the extension .800 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .500. Delivery times available on request.

Desk units

Supply includes	Material Sheet steel	Colour RAL	Surface finish
Enclosure open top and bottom	1.5 mm	7032	Dipcoat primed in RAL 7044, powder coated on the outside in textured RAL 7032
Console lid with cam and lid stay	2.0 mm		



Width in mm	800	1200	1600	800	1200	1600
Height in mm	200					
Depth in mm	850 (for depth 400)			950 (for depth 500)		
Model No. AP	2611.200	2641.200	2651.200	2613.200	2643.200	2653.200
Weight (kg)	25.5	35.5	44.0	30.6	42.6	52.8

To order in primed RAL 7044 please add the extension .300 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .500. Delivery times available on request.

Pedestals

Supply includes	Material Sheet steel	Colour RAL	Surface finish
Enclosure open at top	1.5 mm	7032	Dipcoat primed in RAL 7044, powder coated on the outside in textured RAL 7032
Door or double door with locking rod. For depth 400 mm: front For depth 500 mm: front and rear	2.0 mm		
Gland plates, two-piece	1.5 mm		Zinc-plated
Mounting plate. For depth 500 mm: infinitely adjustable	3.0 mm		



	800	1200	1600	800	1200	1600
Width in mm	800	1200	1600	800	1200	1600
Height in mm	670					
Depth in mm	400			500		
Model No. AP	2600.600	2620.600	2630.600	2610.600	2640.600	2650.600
Doors	1	2	2	1	2	2
Weight (kg)	43.5	62.3	80.0	52.2	75.0	96.0

To order in primed RAL 7044 please add the extension .800 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .500. Delivery times available on request.

One-piece consoles AP

Supply includes	Material Sheet steel	Surface finish	Protection category
Enclosure solid rear and sides	1.5 mm	Dipcoat primed in RAL 7044, powder-coated on the outside in textured RAL 7032	IP 55 to EN 60 529/10.91 Complies with NEMA 12
Door or double door at front. Console lid with lid stay	2.0 mm		
Gland plate, two-piece	1.5 mm	Zinc-plated	
Mounting plate	3.0 mm		



Model No. AP	2666.600	2668.600	2670.600	2672.600
Width mm	600	800	1000	1200
Height mm	960	960	960	960
Depth mm	400/480	400/480	400/480	400/480
Weight (kg)	51.5	62.5	79.5	90.0

To order in primed RAL 7044 please add the extension .800 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .500. Delivery times available on request.

Universal consoles AP

Supply includes	Material Sheet steel	Surface finish	Protection category
Enclosure, solid sides	1.5 mm	Dipcoat primed in RAL 7044, powder coated on the outside in textured RAL 7032	IP 55 to EN 60 529/10.91 Complies with NEMA 12
Doors* top, bottom, rear	2.0 mm		
Three-piece gland plates	1.5 mm	Zinc-plated	
Mounting plate	3.0 mm		
2 design strips (only for AP 2695.600)	Aluminium section	RAL 5018	



* With short bottom door (AP 2695.600) the drawer or desk section should be fitted in order to preserve the protection category.

Model No. AP	2694.600	2695.600
Width mm	600	600
Height mm	1300	1300
Depth mm	500	500
Weight (kg)	77.0	75.8

To order in primed RAL 7044 please add the extension .800 to the Model No., and for versions spray-finished in textured RAL 7035, please use extension .500. Delivery times available on request.

Rittal Command Panel . . .

. . . Suggestions from industry, for industry

Our Command Panel solutions are as diverse as the requirements placed on them. They are tailored to customer requirements in terms of size, design and execution. The VIP 6000, Optipanel and Premium Panel are outstanding systems for this purpose. All Rittal CP enclosure systems may be combined with floor-standing and support arm systems. Allow yourself to be inspired by the practical examples shown here.

An extensive range of accessories and detailed information may be found in the brochure "Systems for the human/machine interface" or on our website



Example 1
Optipanel as a TFT case



Example 2
Optipanel divided with cross member, slimline keyboard housing with U handle



Example 3
VIP 6000 with narrow frame, divided twice, with support arm system CP-XL



Example 4
Wide VIP frame integrated into a machine housing



Example 5
VIP 6000 with combined frame, U handle and support arm system CP-L



Example 6
VIP operating housing with combined frame, interface box and deep keyboard housing



Example 7
Optipanel with controller and emergency-off switch integrated into the adaptor panel



Example 8
Command panel housing with door and support arm system CP-S in stainless steel



Example 9
Operating housing with terminal box KL as keyboard housing



Example 10
Command panel housing with door with signal pillar on support arm system CP-L



Example 11
VIP 6000 with handle set for wide frames on support arm system CP-XL



Example 12
VIP 6000 with wide frame and adjustable frame connector



Example 13
Stainless steel operating housing with control components. Suitable for installation in the front or rear panel



Example 14
Operating housing with wide VIP 6000 frame and keyboard drawer mounted in the front panel



Example 15
Compact Panel with control components integrated into the front panel on support arm system CP-S



Example 16
Premium Panel with side support arm connection CP-S. Particularly suitable for use in the food industry

Industrial Workstations . . .

. . . Fast selection

It's so easy!

Choose the appropriate IW components according to your requirements. Start at **1** "monitor housings, operating housings".

▶ Continue with IW according to the item numbers.

▬ System end

An extensive range of accessories and detailed information may be found in the brochure "Systems for the human/machine interface" or on our website



1 Monitor housings, operating housings

1.1 Monitor housing 17" IW 6902.510 Monitor housing 21" IW 6902.500	▶ 2.1 2.2
1.2 Optipanel For TFT monitors or other display and input units	▶ 2.4 2.5

2 Mounting components for monitor and operating housings

2.1 Feet for monitor housing IW 6902.610	▬
2.2 Spacer plate for monitor housing IW 6902.630 rotatable in conjunction Turntable for spacer and support plate IW 6902.620	▶ 3.4 4.2
2.3 Support plate for individual equipment IW 6902.650 rotatable in conjunction Turntable for spacer and support plate IW 6902.620	▶ 3.5 4.3
2.4 Support arm system CP-L for rotatable, swivel and height-adjustable positioning of the Optipanel command panels	▶ 3.5 4.3
2.5 Enclosure attachment, tilting, top mounting* IW 6902.670	▶ 3.5 4.4






* May also be used rotated through 180°.

Assembly example:




1.2	Optipanel
2.4	Support arm system CP-L
3.5	Worktop, prepared for enclosure attachment
5.6	Enclosure with drawer section
7.1	Base/plinth, stationary
7.2	Twin castors

2.6 Enclosure attachment tilting, base mounting IW 6902.640	▶ 3.6 4.4









3 Worktops

3.1 Cover solid IW 6902.400 	5.1 5.2 5.3 5.4 5.7
3.2 Worktop small, solid IW 6902.300 	
3.3 Worktop solid IW 6902.100 	5.1 5.2 5.3 5.4 5.6 5.7
3.4 Worktop prepared for turntable IW 6902.110 	
3.5 Worktop prepared for enclosure attachment Connection on left, IW 6902.120 Connection on right, IW 6902.130 	

4 Worktops with handle

4.1 Worktop with handle solid IW 6902.000 	5.1 5.2 5.3 5.4 5.7
4.2 Worktop with handle prepared for turntable IW 6902.010 	
4.3 Worktop with handle prepared for enclosure attachment Connection on left, IW 6902.020 Connection on right, IW 6902.030 	

5 Enclosures

5.1 Designer door, rear panel screw-fastened from the inside Height 900 mm IW 6900.000 	7.1 7.2
5.2 Designer door, rear panel screw-fastened from the outside Height 1000 mm IW 6901.000 	
5.3 Designer door, rear door Height 900 mm IW 6900.100 	
5.4 Glazed door, rear door Height 900 mm IW 6900.200 	
5.6 Drawer section, designer door, rear door Height 900 mm IW 6900.400 	7.1 7.2
5.7 Drawer front, rear panel screw-fastened from the inside Height 900 mm IW 6900.600 	
5.8 Worktop, keyboard drawer, designer door, rear door pre-configured, height 1000 mm IW 6901.100* 	
5.9 Roof, keyboard drawer, designer door, rear door pre-configured, height 1000 mm IW 6901.200* 	


* The fitted variants IW 6901.100 (with worktop) and IW 6901.200 (with roof) are also available with other worktops on request.


7 Base/plinth components

7.1 Base/plinth, stationary PC 8800.920 	7.1 7.2
7.2 Twin castors PC 4634.500 	

6 Pedestal

6.5 Pedestal IW 6141.200 	7.2
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3.6 Worktop prepared for tilting enclosure attachment, base mounting IW 6902.310 	6.1
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4.4 Worktop with handle prepared for tilting enclosure attachment, base mounting IW 6902.320 	6.1
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System lights

Standard

With assembly parts for mounting:

- On the enclosure profile:
For TS, horizontally (directly), or vertically in conjunction with an adaptor angle
- Directly onto rail systems with 25 mm system punchings
- In AE, AK and AP using universal bracket SZ 2373.000.

With door operated switch

Additionally with floating normally open contact for switching equipment such as fans, signal lights, contactors etc. By using connector SZ 2507.400, the jack may be used.

Supply includes:

With fluorescent lamp, socket G13, length 375/604/908 mm

Light:
Universal white

Protection category:
IP 20 to EN 60 529/10.91



Technical specifications	Model No. PS	Model No. SZ
	Standard	With door operated switch
14 W, 230 V, 50 Hz	4138.140	4138.150
18 W, 230 V, 50 Hz	4138.180	4138.190
30 W, 230 V, 50 Hz	4138.300	4138.350

Additionally required connection accessories:

Connection cable for	Length in mm	Packs of	Model No. PS	
			orange	yellow
Power supply (with socket, without connector)	3000	5	4315.100	4315.110
Power supply via connection component Through-wiring (with socket and connector)	600		4315.400	4315.410
	1000	4315.200	4315.210	
	4000	1	4315.600	4315.610



Door-operated switch with mounting accessories	Length in mm	Packs of	Model No. PS	
			orange	yellow
With connection cable	600	1	4315.500	4315.510
	1000		4315.300	4315.310
Without connection cable	-		4127.000	



For self-assembly	Packs of	Model No. SZ
Sockets for power supply and through-wiring	5	2507.100
Connectors for connection component through-wiring		2507.200
T distributor with 2 sockets, 1 connector		2507.300
Connector for door operated switch cable		2507.400



TFT-Monitor

Technical specifications:

Resolution max.:
15": 1024 x 768 pixels,
VGA + XGA non-interlaced
17": 1280 x 1024 pixels,
VGA + SXGA non-interlaced
Colours: 16.7 million
Brightness: 250 cd/m²
Reading angle: 130° horizontal,
110° vertical
Contrast ratio: 300 : 1
MTBF backlight: 50,000 h
Voltage: 12 V DC
On Screen Display (OSD)
at rear
VGA input: 15 pin D-Sub
Operating temperature: 0°C
to +50°C

Front frame:

Size:
15": W/H 430 x 343 mm
17": W/H 482.6 x 354.8 mm
Aluminium, powder coated in
RAL 7035
Threaded bolts M5 at rear
(15" = 12/17" = 14)

Supply includes:

Seal and hex nuts
(for installation in surfaces).

Protection category:
IP 65 to EN 60 529/10.91, front

Version	Size	Model No. SM
With anti-reflection coated safety glass screen	15"	6450.010
	17"	6450.020
With touchscreen	15"	6450.030
	17"	6450.040

Also required accessories for installation in VIP 6000 and Optipanel:
Mounting kit CP 6053.500.



Cable glands

Polyamide

A complete range for cable diameters from 3 – 44 mm, suitable for industrial use.

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering work and storage locations.

- Clamping membranes for even tightening and strain relief which protects the cables.
- Spray-moulded sealing lip ensures an optimum seal against the enclosure.
- Trapezoid thread for secure screw-fastening of the top-hat nut.

Material:

Polyamide 6, neoprene seal

Colour:
RAL 7035

Protection category:
IP 68 to EN 60 529/10.91

Approval:
VDE tested to EN 50 262



Brass

A complete range for cable diameters from 3 – 44 mm, specifically for heavy loads.

- Because the gland and lock nut are sold together in a single pack, this saves additional ordering work and storage locations.
- Clamping membranes for even tightening and strain relief which protects the cables.

- Insulation thanks to plastic insert.
- Optimum seal on the connection thread, thanks to O-ring.
- The lock nut cuts automatically into the spray-finish, thereby creating a conductive connection.

Material:

Nickel-plated brass, neoprene seal

Protection category:
IP 68 to EN 60 529/10.91

Approval:
VDE tested to EN 50 262



Polyamide				Brass			
Size	Cable diameter	Packs of	Model No. SZ	Size	Cable diameter	Packs of	Model No. SZ
M12 x 1.5	3 – 6 mm	50	2411.600	M12 x 1.5	3 – 6 mm	15	2411.800
M16 x 1.5	4 – 8 mm	50	2411.610	M16 x 1.5	4 – 8 mm	15	2411.810
M20 x 1.5	6 – 12 mm	50	2411.620	M20 x 1.5	6 – 12 mm	10	2411.820
M25 x 1.5	12 – 17 mm	25	2411.630	M25 x 1.5	10 – 14 mm	10	2411.830
M32 x 1.5	15 – 21 mm	15	2411.640	M32 x 1.5	13 – 18 mm	5	2411.840
M40 x 1.5	19 – 28 mm	5	2411.650	M40 x 1.5	18 – 25 mm	4	2411.850
M50 x 1.5	30 – 36 mm	5	2411.660	M50 x 1.5	22 – 32 mm	2	2411.860
M63 x 1.5	34 – 44 mm	3	2411.670	M63 x 1.5	34 – 44 mm	1	2411.870

Keyboards

Desktop keyboard IP 65

Technical specifications:

W/H/D 410 x 220 x 25 mm
105 keys

Actuation travel/force:
0.4 mm/2 N

Service life: ≥ 1 million
switching cycles

Operating temperature:
–20°C to +70°C

German layout

Supply includes:

Including connection cable
with PS/2 connector (1.8 m).

Note:

Other country variants and
USB connection available on
request.

Model No. SM	6446.000
--------------	----------



Stainless steel keyboard 19"/4 U

Technical specifications:

Dimensions of front panel
W/H/D 482.6 x 177 x 3.7 mm

Installation depth 25 mm

For installation in desk
sections, AP console systems,
PC enclosure systems

Mounting variant with threaded
bolts at the rear

105 keys

Actuation travel/force:
0 mm/0.7 N

Service life: ≥ 10 million
switching cycles

Keypad: Abrasion-resistant
electrolyte lettering

Operating temperature:
–25°C to +75°C

PS/2 and USB connection

German layout

Material:

Stainless steel 1.4301
(1.4571 on request).

Supply includes:

Connection cable (1.8 m) with
PS/2 connector and hex nuts.

Protection category:
IP 67 to EN 60 529/10.91

Note:

Other country variants
available on request.

Model No. SM	6446.010
--------------	----------



An extensive range of accessories and detailed information may be found in the main catalogue or on our website

Electronic packaging . . .

. . . Fully assembled, pre-wired and tested.

Rittal Electronic Systems offer "complete know-how" in the field of electronic packaging. From variable subrack systems, to a variety of enclosure solutions, operation and monitoring solutions, backplanes, power supplies, and climate control components, through to complete microcomputer systems for VMEbus, CompactPCI, ATCA or ATX.

The complete range for electronic packaging

- Microcomputer systems
- Industrial PC systems
- 19" keyboard rack
- Power supplies
- Backplanes
- Subrack systems
- Injector/extractor handles
- System enclosures/instrument cases

Detailed information may be found in the EL Catalogue or on our website



The **Advanced TCA Shelf to PICMG 3.x** facilitates a higher data transmission rate, larger board formats, and a switched fabric architecture.

Microcomputer systems for CompactPCI and VME/VME64x

Complete plug-and-play solutions for CompactPCI and VME applications. Integration to a high level. The systems are supplied fully assembled, prewired and tested, complete with power supply and backplane.

The basic variants shown here are just a selection of typical application examples. Customised solutions can also be provided.

. . . for CompactPCI



Rittal Slim-Box

1, 2, 3, 4 U/2, 4, 6, 8 slots

Model No. RP MPS system	3689.177	3689.178	3689.179	3689.180
For	CPCI			
U	1	2	3	4
Depth mm	300			
For PCB depth				
– front mm	160	160	160	160
– rear mm	80	80	80	80



Ripac rack-mounted system

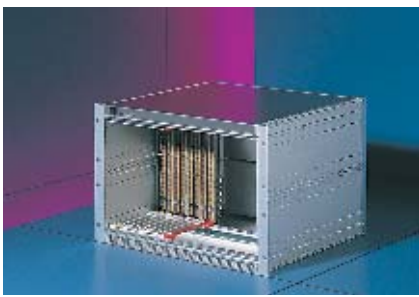
3 U, 5 slots/4 U, 7 slots, horizontal

Model No. RP MPS system	3687.717	3687.718
For	CPCI	
U	3	4
Depth mm	405	
Wiring space mm	210	
For horizontally mounted PCB	6 U x 160 mm	



4 U/7 U, 8 slots

Model No. RP MPS system	3687.719	3687.720
For	CPCI	
U	4 (3 + 1)	7 (6 + 1)
Depth mm	405	
Wiring space mm	210	
For PCB	3 U/6 U x 160 mm	



7 U, 8 slots

Model No. RP MPS system	3687.721
For	CPCI
U	7 (6 + 2 x 1/2)
Depth mm	405
Wiring space mm	210
For PCB	6 U x 160 mm



9 U, 8 slots with RiCool and rear I/O

Model No. RP MPS system	3687.723
For	CPCI
U	9 (6 + 2 x 1 1/2)
Depth mm	290.5
Wiring space mm	85.5
For PCB	6 U x 160 mm

... for VME/VME64x



Ripac rack-mounted system

3 U, 5 slots/4 U, 7 slots, horizontal

Model No. RP MPS system	3687.698	3687.699	3687.700	3687.696
For	VME	VME64x	VME	VME64x
U	3		4	
Depth mm	405			
Wiring space mm	210			
For PCB	6 U x 160 mm			



4 U/7 U, 12 slots

Model No. RP MPS system	3687.702	3687.703	3687.704
For	VME		VME64x
U	4 (3 + 1)	7 (6 + 1)	
Depth mm	405		
Wiring space mm	210		
For PCB	3 U/6 U x 160 mm		



7 U, 12 slots

Model No. RP MPS system	3687.705	3687.706
For	VME	VME64x
U	7 (6 + 2 x 1/2)	
Depth mm	405	
Wiring space mm	210	
For PCB	6 U x 160 mm	



9 U, 12 slots with RiCool

Model No. RP MPS system	3687.708
For	VME64x
U	9 (6 + 2 x 1 1/2)
Depth mm	290.5
Wiring space mm	85.5
For PCB	6 U x 160 mm

Systems for ATX and storage devices

19" rack-mounted systems for the installation of ATX/Mini-ATX or Micro-ATX boards, complete with power supply and fan.



Industrial PC ATX Ripac

4 U, aluminium

Width mm	Height mm	Depth mm	Packs of	Model No. RP
482.6 (19")	177	440	1	3659.000



Industrial PC ATX

1, 2 and 4 U, sheet steel

Width mm	Height mm	Depth mm	Packs of	U	Model No. RP
482.6 (19")	44	530	1	1	3659.500
	88		1	2	3659.600
	177	442.5	1	4	3659.900



Industrial PC AT/ATX (Vario) Economy

with front door 4 U, sheet steel

ATX Economy

Width mm	Height mm	Depth mm	Packs of	Model No. RP
482.6 (19")	177	430/415	1	3659.100



Modular system AT/ATX Vario Economy

Installation for		Packs of	Model No. RP
AT/ATX power pack (PS/2)	ATX/ AT 8 + 4 slots/ AT 14 slots	1	3659.400
Redundant power pack (PS/2)		1	

Individually upgradable for AT or ATX applications.



Industrial PC ATX

with front connections for 482.6 mm (19") installation, 4 U

Width mm	Height mm	Depth mm	Packs of	Model No. RP
482.6 (19")	177/174	442.5/440	1	3659.700



Industrial PC ATX

with front connections for wall mounting

Width mm	Height mm	Depth mm	Packs of	Model No. RP
380	330	290	1	3659.710



Systems for storage devices

Design	Width mm	Height mm	Depth mm	Packs of	Model No. RP
19" RAID subrack	482.6 (19")	177	455	1	3659.300
19" ATX RAID subrack, 6-Drive			450	1	3659.420
19" ATX RAID subrack, 9-Drive			690	1	3659.430

Operation and monitoring



19" keyboard rack, 1 U

Colour	Packs of	Model No. RP
RAL 7035	1	3659.520

- Prepared for the installation of 482.6 mm (19") keyboards RP 3659.590
- With lock



Mousepad for keyboard rack

Packs of	Model No. RP
1	3659.620

- Optional mounting on the right or left
- Only suitable for use in conjunction with a 482.6 mm (19") keyboard with a maximum key height of 39 mm



482.6 mm (19") keyboard

Packs of	Model No. RP
1	3659.590

- For installation in keyboard rack RP 3659.520
- German keyboard layout
- Key height 38.9 mm
- PS/2 connector
- 105 keys (including WIN95 keys)



15" TFT display

Packs of	Model No. RP
1	3659.530

- 19" front panel 7 U, RAL 7035 with integral TFT LCD 15.1"
- Automatic brightness control
- Anti-reflection coated safety glass screen
- Brightness: 250 cd/m²
- On-screen display
- 16.7 million colours
- Maximum resolution: 1024 x 768 pixels
- Viewing angle: 160° (H+V)
- Contrast ratio: 300 : 1
- RS232 monitor interface

Power supply units

An extensive range of power supply units in various designs.
Both 482.6 mm (19") compatible as well as Open Frame version or PS/2 design.



Open Frame (VME), 250/400 watts

	250 watts	400 watts
Model No. RP 32 A	3686.622	–
Model No. RP 60 A	–	3686.623
Model No. RP 80 A	–	3686.629

Output sizes

	Output 1	Output 2	Output 3	Output 1	Output 2	Output 3
Output voltage	5 V	+12 V	–12 V	5 V	+12 V	–12 V
Output current	35 A	8 A	8 A	60 A 80 A	8 A	8 A

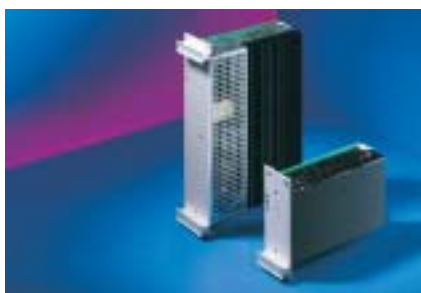


Open Frame (VME), 600/1000 watts

	600 watts	1000 watts
Model No. RP 85 A	3686.624	–
Model No. RP 110 A	–	3686.625

Output sizes

	Output 1	Output 2	Output 3	Output 1	Output 2	Output 3
Output voltage	5 V	+12 V	–12 V	5 V	+12 V	–12 V
Output current	85 A	8 A	8 A	110 A	14 A	5 A



3 U, 6 U, pluggable (VME), 130/160/270 watts

	3 U		6 U	
Height	3 U		6 U	
Width (HP)	10	12	8	12
Model No. RP Power supply	3686.469	3686.470	3686.471	3685.306
Model No. RP Front panel	3685.304	3685.305	3686.472	3685.307

Output sizes

	Output 1	Output 2	Output 3	Output 1	Output 2	Output 3
Output voltage	5 V	+12 V	–12 V	5 V	+12 V	–12 V
Output current 3 U, 10 HP/6 U, 8 HP	14 A	5 A	2 A	20 A	5 A	2 A
Output current 3 U, 12 HP/6 U, 12 HP	20 A	5 A	2 A	35 A	6 A	2 A
Maximum power output	130 W (10 HP), 160 W (12 HP)			160 W (8 HP), 270 W (12 HP)		



3 U, 6 U, pluggable (CPCI), 175/200/250/350 watts

	3 U				6 U			
Height	3 U				6 U			
Width (HP)	8 HP				8 HP			
Model No. RP AC power supply	3688.534	3688.694	3688.695	3688.528				
Model No. RP DC power supply	3688.537	3688.655	3688.696	3688.530				

Output sizes

	U ₁	U ₂	U ₃	U ₄	U ₁	U ₂	U ₃	U ₄	U ₁	U ₂	U ₃	U ₄	U ₁	U ₂	U ₃	U ₄
Output voltage V	5	3.3	12	–12	5	3.3	12	–12	5	3.3	12	–12	5	3.3	12	–12
Output current A	25	20	5	0.5	30	25	5	0.5	33	33	6	1.5	40	40	9	1
Output current U ₁ and U ₂	30 A max.				38 A max.											
Maximum power output	175 W				200 W				250 W				350 W			



AT/ATX power supply, 250/300/400 watts

Design	Power watts	PFC	Packs of	Model No. RP
AT	300	passive	1	3688.118
AT for RAID	300	passive	1	3688.119
ATX	250	passive	1	3688.121*
ATX	250	active	1	3688.127
ATX	300	active	1	3688.129
ATX	400	active	1	3688.128

* temperature-controlled



ATX power supply 1 U, 200 watts

Design	Power watts	PFC	Packs of	Model No. RP
ATX	200	active	1	3688.130

Redundant power supply for RAID, 2 x 300 watts

Design	Power watts	PFC	Packs of	Model No. RP
RAID version	2 x 300	active	1	3688.125



Redundant power supply for ATX, 2 x 300 watts

Design	Power watts	PFC	Packs of	Model No. RP
ATX version (1 connector)	2 x 300	active	1	3688.123
ATX version (2 connectors)	2 x 300	active	1	3688.120

ATX power supply, 300 watts

Packs of	Power watts	PFC	Model No. RP
1	300	active	3687.793

Front panel for ATX power supply

U	HP	Model No. RP	
		EMC	Non-EMC
3	42	3685.331	3685.328
6	21	3685.332	3685.329



CPCI power supply, pluggable, 180 watts

Height (U)	Width (HP)	Power watts	Model No. RP Power supply	Model No. RP Front panel for power supply
3	12	180	3686.682	3685.330

CPCI power supply, Open Frame, 400 watts

Power watts	Model No. RP
400	3687.695



Uninterruptible power supply (UPS)

Technical specifications:
 Output 300 VA/180 W
 Input/output voltage: 220, 230, 240 V AC \pm 15%
 Input frequency: 50 Hz \pm 5%
 Output frequency: 50 Hz \pm 1%
 Switch-over time: < 4 ms
 Charging time: 6 – 8 hours (to 90% capacity)
 Operating environment:
 Temperature 0°C – 40°C
 Humidity 0 – 90%

Model No. RP	3659.080

Backplanes for CompactPCI

- Modular assembly facilitates expansion up to a max. of 21 slots
- Connection of the individual segments via bridge modules
- Voltage supply via ATX-compatible connector
- System slot on right (left upon request)



Backplanes 3.5 U

Slots	Design	Model No. RP	
		32-bit version	64-bit version
2	SE	–	3687.864
3	SE	3687.865	3686.578
4	SE	3687.863	3686.576
5	SE	3687.862	3686.575
6	SBME	3687.861	3686.548
7	SBE	3687.860	3686.547
8	S	3687.859	3686.546



Backplanes 6.5 U

Standard

Slots	Design	Model No. RP	
		32-bit version	64-bit version
2	SE	–	3687.871
3	SE	3686.581	3686.580
4	SE	3687.870	3686.579
5	SE	3687.869	3686.552
6	SBE	3687.868	3686.551
7	SBME	3687.867	3686.550
8	S	3687.866	3686.549

Low Profile

Slots	Design	Model No. RP	
		32-bit version	64-bit version
3	SBE	–	3689.205
4	SBE	–	3689.206
5	SBE	–	3689.207
6	SBME	–	3689.208
7	SBE	–	3689.209

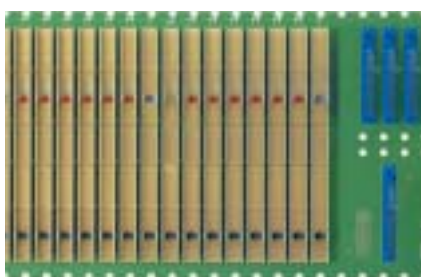


Backplanes 7 U with H.110

Slots	Design	Model No. RP	
		H.110 connected to system slot	H.110 not connected to system slot
3	SE	3688.508*	–
4	SE	3688.507*	–
5	SB	3687.875*	3688.506*
6	SBME	3687.874*	3688.505*
7	SBE	3687.873*	3688.504*
8	S	3687.872	9805.494

* May be extended with bridges

S = Stand alone
B = Beginning segment
M = Middle segment
E = Ending segment



Backplanes 7 U, Switch Fabric to PICMG 2.16

Width	Number of slots	Description of slots	Model No. RP
32 HP	8	1 Fabric slot 6 node slots with CPCI and H.110 1 host slot	3689.188
32 HP	8	see 3689.188, but without H.110	3686.414
84 HP	16	1 Fabric slot 6 node slots with CPCI and H.110 1 host slot 1 Fabric slot 6 node slots with CPCI and H.110 1 host slot 3 slots for power supplies	3686.396
84 HP	16	see 3686.396, but without H.110	3689.186
84 HP	21	7 node slots with CPCI and H.110 1 host slot 1 node slot with H.110, without CPCI 1 Fabric slot 7 node slots with CPCI and H.110 1 host slot 1 node slot with H.110, without CPCI 1 Fabric slot 1 alarm slot	3686.397
84 HP	21	see 3686.397, but without H.110	3689.190
84 HP	21	see 3686.397, but without CPCI	3689.191



Modular CompactPCI bridge

Description	Model No. RP
64-bit CPCI bridge	3686.571



Modular low profile bridge

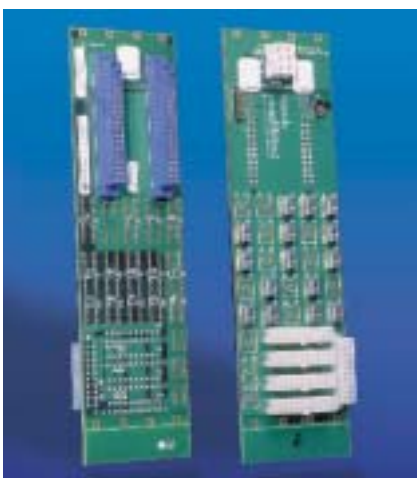
Design	Bits	Model No. RP
left-right	32	3689.210
right-left	32	3689.211
left-right	64	9810.637
right-left	64	9812.625

Note:
Only suitable for use in conjunction with low profile backplanes.



CPCI power supply board 3.5 U, 16 HP

Description	Model No. RP
Board for plug-in power supply with Positronic connector, 47-pin	3688.603
ATX (12") cable harness	9810.337
ATX (16") cable harness	3686.570
ATX (20") cable harness	9810.338



CPCI power supply board 6.5 U, 8 HP

Description	Model No. RP
Board for plug-in power supply with Positronic connector, 47-pin	3688.607
ATX (12") cable harness	9810.337
ATX (16") cable harness	3686.570
ATX (20") cable harness	9810.338

CPCI power supply board 6.5 U, 16 HP

Description	Model No. RP
Board for 2 x plug-in power supplies with Positronic connector, 47-pin	3688.608
ATX (12") cable harness	9810.337
ATX (16") cable harness	3686.570
ATX (20") cable harness	9810.338

Backplanes for VME/VME64x

- Automatic daisy chaining
- VME64x optionally with or without P0 connector



System bus VME64x

6 U

Slot	Dimensions (H x W) mm	Model No. RP	
		without P0 connector	with P0 connector
5	261.6 x 100	3687.608	3687.609
7	261.6 x 161.5	3687.610	3687.611
9	261.6 x 181.5	9904.930	9904.932
10	261.6 x 202	9904.931	9904.933
12	261.6 x 242.5	3686.634	3686.473
21	261.6 x 425.5	3686.635	3686.474

6.5 U

Slot	Dimensions (H x W) mm	Model No. RP	
		without P0 connector	with P0 connector
5	283.7 x 100	9910.012	9910.007
7	283.7 x 161.5	9910.013	9910.008
9	283.7 x 181.5	9910.014	9910.009
10	283.7 x 202	9904.928	9904.929
12	283.7 x 242.5	9910.015	9910.010
21	283.7 x 425.5	9910.016	9910.011



System bus VME J1/J2 monolithic

Slot	Dimensions (H x W) mm	Model No. RP	
		passive	active
2	261.7 x 39.5	3686.475	3686.495
3	261.7 x 59.5	3686.476	3686.496
4	261.7 x 80	3686.477	3686.497
5	261.7 x 100	3686.478	3686.498
6	261.7 x 120.5	3686.479	3686.499
7	261.7 x 141	3686.480	3686.500
8	261.7 x 161.5	3686.481	3686.501
9	261.7 x 181.5	3686.482	3686.502
10	261.7 x 202	3686.483	3686.503
11	261.7 x 222.5	3686.484	3686.504
12	261.7 x 242.5	3686.485	3686.505
13	261.7 x 263	3686.486	3686.506
14	261.7 x 283	3686.487	3686.507
15	261.7 x 303.5	3686.488	3686.508
16	261.7 x 324	3686.489	3686.509
17	261.7 x 344	3686.490	3686.510
18	261.7 x 364.5	3686.491	3686.511
19	261.7 x 385	3686.492	3686.512
20	261.7 x 405	3686.493	3686.513
21	261.7 x 425.5	3686.494	3686.514



System bus VME J1

Slot	Dimensions (H x W) mm	Model No. RP
3	128.4 x 59.5	3686.555
4	128.4 x 80	3686.556
5	128.4 x 100	3686.557
6	128.4 x 120.5	3686.558
7	128.4 x 141	3686.559
8	128.4 x 161.5	3686.560
9	128.4 x 181.5	3686.561
10	128.4 x 202	3686.562
12	128.4 x 242.5	3686.563
13	128.4 x 263	3686.564
14	128.4 x 283	3686.565
15	128.4 x 303.5	3686.566
18	128.4 x 364.5	3686.567
20	128.4 x 405	3686.568
21	128.4 x 425.5	3686.569



Expansion bus VME J2

Slot	Dimensions (H x W) mm	Model No. RP
3	128.4 x 59.5	3686.585
4	128.4 x 80	3686.586
5	128.4 x 100	3686.587
6	128.4 x 120.5	3686.588
7	128.4 x 161.5	3686.589
8	128.4 x 161.5	3686.590
9	128.4 x 181.5	3686.591
10	128.4 x 202	3686.592
12	128.4 x 242.5	3686.593
13	128.4 x 263	3686.594
14	128.4 x 283	3686.595
15	128.4 x 303.5	3686.596
18	128.4 x 364.5	3686.597
20	128.4 x 405	3686.598
21	128.4 x 425.5	3686.599

Basic subrack systems

- 5 basic versions for a variety of application areas
- Identical configuration and accessory components



Ripac ECO

Low-cost version for standard applications

Side panel depth mm	Maximum board depth mm	Model No. Subrack	
		3 U	6 U
175	160	3688.114	3688.116
235	220	3688.115	3688.117



Ripac Vario subrack

for standard applications or complex configurations

Side panel depth mm	Maximum board depth mm	Model No. Subrack					
		3 U		6 U		9 U	
		For backplane	For connectors DIN 41 612	For backplane	For connectors DIN 41 612	For backplane	For connectors DIN 41 612
185	160	3684.020	3684.034	3684.043	3684.056	–	–
225	160	3684.021	3684.035	3684.044	3684.057	–	–
245	220	3684.022	3684.036	3684.045	3684.058	–	–
285	220	3684.023	3685.281	3684.046	–	–	–
305	280	3685.231	3685.233	3685.238	3685.240	–	–
345	280	3684.024	–	3684.047	–	3684.051	3684.059
365	340	3685.232	3685.234	3685.239	–	–	–
405	340	3684.025	–	3684.048	–	3684.052	3684.060
465	400	3684.026	–	3684.049	–	3684.053	3684.061
525	400	3684.027	–	3684.050	–	3684.054	–
585	400	–	–	–	–	3684.055	–



Side panel depth mm	Maximum board depth mm	Model No. Subrack					
		4 U (3 + 1)		4 U (3 + 2 x 1/2)		7 U (6 + 1)	7 U (6 + 2 x 1/2)
		For backplane	For connectors DIN 41 612	For backplane	For connectors DIN 41 612	For backplane	For backplane
245	220	3685.235	–	–	–	–	–
285	220	3684.028	3684.037	3684.031	3684.040	–	–
305	280	3685.236	–	–	–	–	–
345	280	3684.029	3684.038	3684.032	3684.041	–	–
365	340	3685.237	–	–	–	–	–
405	340	3684.030	3684.039	3684.033	3684.042	3684.064	3684.062
465	400	–	–	–	–	3684.065	3684.063



Ripac Vario EMC subrack

for EMC applications

3 U, 6 U, 9 U

Side panel depth mm	Maximum board depth mm	Model No. Subrack					
		3 U		6 U		9 U	
		For backplane	For backplane*	For backplane	For backplane*	For backplane	For backplane*
245	160	3684.128	3684.142	3684.156	3684.169	–	–
285	220	3684.129	3684.143	3684.157	3684.170	–	–
305	220	3685.241	3685.243	3685.242	3685.244	–	–
345	280	3684.130	3684.144	3684.158	3684.171	3684.162	3684.175
405	340	3684.131	3684.145	3684.159	3684.172	3684.163	3684.176
465	400	3684.132	3684.146	3684.160	3684.173	3684.164	3684.177
525	400	3684.133	3684.147	3684.161	3684.174	3684.165	3684.178
585	400	–	–	–	–	3684.166	3684.179

* Front cross rails with 10 mm extension for type IV or VII injector/extractor handles



4 U (3 + 1)/4 U (3 + 2 x 1/2)

Side panel depth mm	Maximum board depth mm	Model No. Subrack			
		4 U (3 + 1)		4 U (3 + 2 x 1/2)	
		For backplane	For backplane*	For backplane	For backplane*
285	220	3684.134	3684.148	3684.137	3684.151
345	280	3684.135	3684.149	3684.138	3684.152
405	340	3684.136	3684.150	3684.139	3684.153

7 U (6 + 1)/7 U (6 + 2 x 1/2)

Side panel depth mm	Maximum board depth mm	Model No. Subrack			
		7 U (6 + 1)		7 U (6 + 2 x 1/2)	
		For backplane	For backplane*	For backplane	For backplane*
285	220	3684.187	3684.192	–	–
345	280	3684.188	3684.193	3684.189	3684.196
405	340	3684.180	3684.194	3684.190	3684.197
465	400	3684.181	3684.195	3684.191	3684.198

* Front cross rails with 10 mm extension for type IV or VII injector/extractor handles



Ripac Compact subracks
for mounting plate or top hat rail assembly
3 U, 6 U

Side panel depth mm	Max. PCB depth mm	Model No. Subrack For backplane						Model No. Subrack For backplane – EMC version					
		3 U			6 U			3 U			6 U		
		21 HP		42 HP		42 HP		21 HP		42 HP		42 HP	
		Top hat rail	Mounting plate	Top hat rail	Mounting plate	Mounting plate	Top hat rail	Mounting plate	Top hat rail	Mounting plate	Top hat rail	Mounting plate	
225	160	3687.667	3687.669	3687.671	3687.673	3687.680	3687.682	3687.684	3687.686	3687.688	3687.690		
285	220	3687.668	3687.670	3687.672	3687.674	3687.681	3687.683	3687.685	3687.687	3687.689	3687.691		



Ripac Vario Mobil subrack
for mobile applications (e.g. in rail vehicles)
3 U, 6 U

Side panel depth mm	Maximum board depth mm	Model No. Subrack					
		3 U			6 U		
		For backplane	For connectors DIN 41 612	For backplane – EMC version	For backplane	For connectors DIN 41 612	For backplane – EMC version
245	220	3687.782	3687.780	3687.784	3687.783	3687.781	3687.785

Injector/extractor handles

- For inserting and removing connectors with a large number of pins
- Integral microswitch for "live insertion" applications
- ESD pin to dissipate static charges
- Codeable



Type IV injector/extractor handle including microswitch

Colour	Installation	Packs of	Model No. RP
Grey	Top	1	3686.905
Grey	Bottom	1	3686.904
Black	Top	1	3686.907
Black	Bottom	1	3686.906

Type IV injector/extractor handle excluding microswitch

Colour	Installation	Packs of	Model No. RP
Grey	Top	1	3686.901
Grey	Bottom	1	3686.900
Black	Top	1	3686.903
Black	Bottom	1	3686.902

Injector/extractor handle type IV, 8 HP (bayed)

Colour	Installation	Packs of	Model No. RP
Black	Bottom	1	3686.908
Black	Top	1	3686.909



Injector/extractor lever type IVs with push-button for latching and unlatching

Handles without offset

Installation	Packs of	Model No. RP
Top	1	3688.770
Bottom	1	3688.771

Handles with 1/2 HP offset

Installation	Packs of	Model No. RP
Top	1	3688.772
Bottom	1	3688.773

Connector pin for injector/extractor handles type IV/IVs

Packs of	Model No. RP
20	3685.319



Injector/extractor handle type VII, plastic (Telecom)

Handles without offset

Installation	Packs of	Model No. RP
Top	1	3688.784
Bottom	1	3688.785

Handles with 1/2 HP offset

Installation	Packs of	Model No. RP
Top	1	3688.780
Bottom	1	3688.781



Injector/extractor handle type VII, metal (Telecom)

Handles without offset

Installation	Packs of	Model No. RP
Top	1	3688.790
Bottom	1	3688.791

Handles with 1/2 HP offset

Installation	Packs of	Model No. RP
Top	1	3688.786
Bottom	1	3688.787

System enclosures for use as desktop or rack-mounted enclosures



RiBox 1 U

System enclosure made from aluminium to accommodate Euroboards and double Euroboards, bridges, hubs, routers or modems.

	Model No. 19" rack mount					Model No. 19" rack mount including assembly kit for double Euroboards	
Model No. RP	3687.814	3687.815	3687.816	3687.817	3687.818	3684.072	3684.073
Width mm	19" (482.6)	19" (482.6)	19" (482.6)	19" (482.6)	19" (482.6)	19" (482.6)	19" (482.6)
Depth mm	150	200	250	300	350	250	350
	Model No. Instrument cases						
Model No. RP	3687.819	3687.820	3687.821	3687.822	3687.823	-	-
Width mm	447	447	447	447	447	-	-
Depth mm	150	200	250	300	350	-	-

Ripac Vario Module

System enclosures to accommodate PCBs or board-type plug-in units. For mobile or stationary applications.



Ripac Vario-Module 2 U, 3 U/42 HP, 63 HP

Ripac Vario-Module	Packs of	2 U		3 U			
Installation width (HP)		42	42	42	42	63	63
Depth mm		250.4	310.4	250.4	310.4	250.4	310.4
Model No. VM Enclosure without ventilation holes	1	3981.000	3981.020	-	-	-	-
Model No. VM Enclosure with ventilation holes	1	-	-	3981.040	3981.070	3981.050	3981.080
Installation accessories/individual components							
Corner trim for configuration as instrument case	2	3981.300	3981.300	3981.310	3981.310	3981.310	3981.310
Flange for configuration as rack mount							
- without handle holes	2	3981.200	3981.200	3981.210	3981.210	3981.210	3981.210
- with handle holes	2	-	-	3981.260	3981.260	3981.260	3981.260



Ripac Vario-Module 1 U, 2 U, 3 U/84 HP

Ripac Vario-Module	P. of	1 U			2 U		3 U		
Installation width (HP)		84	84	84	84	84	84	84	84
Depth mm		250.4	310.4	370.4	250.4	310.4	250.4	310.4	370.4
Model No. VM Enclosure without ventilation holes	1	3981.001	3981.002	3981.003	3981.010	3981.030	-	-	-
Model No. VM Enclosure with ventilation holes	1	-	-	-	-	-	3981.060	3981.090	3981.100
Installation accessories/individual components									
Corner trim for configuration as instrument case	2	3981.570	3981.570	3981.570	3981.300	3981.300	3981.310	3981.310	3981.310
Flange for configuration as rack mount									
- without handle holes	2	3981.580	3981.580	3981.580	3981.200	3981.200	3981.210	3981.210	3981.210
- with handle holes	2	-	-	-	-	-	3981.260	3981.260	3981.260



Ripac Vario-Module 4 U, 6 U

Ripac Vario-Module	Packs of	4 U (3 + 1)			6 U		
Installation width (HP)		84	84	84	84	84	84
Depth mm		250.4	310.4	370.4	310.4	370.4	430.4
Model No. VM Enclosure with ventilation holes	1	3981.110	3981.120	3981.130	3981.140	3981.150	3981.160
Installation accessories/individual components							
Corner trim for configuration as instrument case	2	3981.320	3981.320	3981.320	3981.330	3981.330	3981.330
Flange for configuration as rack mount							
– without handle holes	2	3981.220	3981.220	3981.220	3981.230	3981.230	3981.230
– with handle holes	2	3981.270	3981.270	3981.270	3981.280	3981.280	3981.280



Ripac Vario-Module 7 U, 8 U

Ripac Vario-Module	Packs of	7 U (6 + 1)			8 U (2 x 3 + 2 x 1)		
Installation width (HP)		84	84	84	84	84	84
Depth mm		310.4	370.4	430.4	310.4	370.4	430.4
Model No. VM Enclosure without ventilation holes	1	–	–	–	3981.175	3981.185	3981.195
Model No. VM Enclosure with ventilation holes	1	3981.170	3981.180	3981.190	–	–	–
Installation accessories/individual components							
Corner trim for configuration as instrument case	2	3981.340	3981.340	3981.340	3981.590	3981.590	3981.590
Flange for configuration as rack mount							
– without handle holes	2	3981.240	3981.240	3981.240	3981.250	3981.250	3981.250
– with handle holes	2	3981.290	3981.290	3981.290	3981.560	3981.560	3981.560

Instrument cases



Rittal RiCase instrument case

Aluminium instrument case for the installation of 482.6 mm (19") rack mounted equipment and components. For mobile and stationary applications.

Rittal RiCase 269.2 mm (1/2 19")/1 U, 2 U

Enclosures for subrack width 269.2 mm (1/2 19")	Packs of	1 U		2 U	
Depth mm		300	420	300	540
Model No. RC unvented, RAL 5018*	1	3750.100	–	3750.200	–
Model No. RC unvented, RAL 5012*	1	3750.102	–	3750.202	–
Model No. RC unvented, RAL 7030	1	3750.104	–	3750.204	–
Model No. RC vented, RAL 5018*	1	–	3750.110	–	3750.220
Model No. RC vented, RAL 5012*	1	–	3750.112	–	3750.222
Model No. RC vented, RAL 7030	1	–	3750.114	–	3750.224

* Extended delivery times

Rittal RiCase 269.2 mm (1/2 19")/3 U, 4 U

Enclosures for subrack width 269.2 mm (1/2 19")	Packs of	3 U			4 U	
Depth mm		300	420	540	420	540
Model No. RC unvented, RAL 5018*	1	3750.210	3750.300	–	3750.400	–
Model No. RC unvented, RAL 5012*	1	3750.212	3750.302	–	3750.402	–
Model No. RC unvented, RAL 7030	1	3750.214	3750.304	–	3750.404	–
Model No. RC vented, RAL 5018*	1	–	3750.350	3750.360	–	3750.450
Model No. RC vented, RAL 5012*	1	–	3750.352	3750.362	–	3750.452
Model No. RC vented, RAL 7030	1	–	3750.354	3750.364	–	3750.454

* Extended delivery times

Rittal RiCase 482.6 mm (19")/3 U, 4 U, 6 U

Enclosure for subrack width 482.6 mm (19")	Packs of	3 U		4 U		6 U		
Depth mm		300	420	300	420	300	420	540
Model No. RC unvented, RAL 5018*	1	3750.310	3750.320	3750.410	3750.420	3750.600	3750.610	3750.620
Model No. RC unvented, RAL 5012*	1	3750.312	3750.322	3750.412	3750.422	3750.602	3750.612	3750.622
Model No. RC unvented, RAL 7030	1	3750.314	3750.324	3750.414	3750.424	3750.604	3750.614	3750.624
Model No. RC vented, RAL 5018*	1	3750.330	3750.340	3750.430	3750.440	3750.630	3750.640	3750.650
Model No. RC vented, RAL 5012*	1	3750.332	3750.342	3750.432	3750.442	3750.632	3750.642	3750.652
Model No. RC vented, RAL 7030	1	3750.334	3750.344	3750.434	3750.444	3750.634	3750.644	3750.654

* Extended delivery times

Rittal RiCase 482.6 mm (19")/7 U, 9 U, 12 U

Enclosure for subrack width 482.6 mm (19")	Packs of	7 U		9 U		12 U
Depth mm		420	540	420	540	540
Model No. RC unvented, RAL 5018*	1	3750.700	3750.710	3750.900	3750.910	3750.000
Model No. RC unvented, RAL 5012*	1	3750.702	3750.712	3750.902	3750.912	3750.002
Model No. RC unvented, RAL 7030	1	3750.704	3750.714	3750.904	3750.914	3750.004
Model No. RC vented, RAL 5018*	1	3750.720	3750.730	3750.920	3750.930	3750.030
Model No. RC vented, RAL 5012*	1	3750.722	3750.732	3750.922	3750.932	3750.032
Model No. RC vented, RAL 7030	1	3750.724	3750.734	3750.924	3750.934	3750.034

* Extended delivery times



Rittal Vario-Case iS instrument case

Instrument case made from aluminium and plastic. For the installation of 482.6 mm (19") rack mounted equipment and components as well as individual board type plug-in units. For portable and static applications.

Rittal Vario-Case iS, 269.2 mm (1 1/2 19")/1 U, 2 U, 3 U, 4 U

Enclosures for subrack width 269.2 mm (1 1/2 19")	Packs of	1 U	2 U	3 U		4 U	
Depth mm		300	300	300	400	300	400
Model No. VC without vent slots	1	3710.000	3720.000	3730.000	3731.000	3740.000	3741.000

Rittal Vario-Case iS, 482.6 mm (19")/1 U, 4 U, 7 U

Enclosure for subrack width 482.6 mm (19")	Packs of	1 U		4 U			7 U	
Depth mm		300	400	300	400	500	400	500
Model No. VC without vent slots	1	3713.000*	3714.000	3743.000	3744.000	3745.000*	3774.000	3775.000
Model No. VC with vent slots	1	3713.200*	3714.200	3743.200	3744.200	3745.200*	3774.200	3775.200

* Extended delivery times

Rittal Vario-Case iS, 482.6 mm (19")/3 U

Enclosure for subrack width 482.6 mm (19")	Packs of	3 U		
Depth mm		300	400	500
Model No. VC without vent slots	1	3733.000	3734.000	3735.000
Model No. VC with vent slots	1	3733.200	3734.200	3735.200

Rittal Vario-Case iS, 482.6 mm (19")/6 U, 9 U

Enclosure for subrack width 482.6 mm (19")	Packs of	6 U			9 U	
Depth mm		300	400	500	400	500
Model No. VC without vent slots	1	3763.000	3764.000	3765.000	3794.000	3795.000
Model No. VC with vent slots	1	3763.200	3764.200	3765.200	3794.200	3795.200

System climate control . . .

. . . creates the correct ambient conditions for every application, particularly for sensitive electronics.

A broad selection of cooling units, recooling systems, heat exchangers, fan-and-filter units and enclosure heaters protects against adverse physical and thermal influences. This is supplemented by versatile accessory components. With a full advisory service and its PC software package Rittal Therm, Rittal will help you to select the correct climate control unit to suit your precise requirements.

Enhanced operational reliability and a longer service life for electronics

- Climate controlled enclosure systems
- Cooling units
- Heat exchangers
- Recooling systems
- Fan-and-filter units
- Roof-mounted fans
- Rack-mounted climate control
- Enclosure heaters

Detailed information can be found in the SK brochure "Climate Control for the Future" or on our website

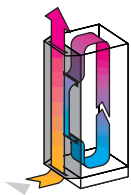
Climate controlled enclosure systems

Rittal has pooled its many years of expertise in enclosure construction and air-conditioning, and now offers a complete solution, consisting of an enclosure and a cooling unit.

The customer saves time and money, because the work of cutting out the air inlet and outlet openings and assembling the unit has been eliminated entirely. The modular structure, consisting of an enclosure frame, cooling module and designer climate control door, combine to form a complete solution, with the cooling module integrated invisibly into the front door.

Customer benefits:

- Low investment costs
- No assembly work
- High level of efficiency



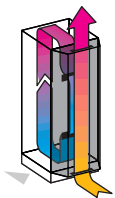
Climate controlled enclosures KTS

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
1100 W	600 x 1800 x 700	230, 50/60	8687.100	•	•		•	•
	600 x 2000 x 700		8607.100	•	•		•	•
	600 x 1800 x 700	400, 2~, 50/60	8687.840	•	•		•	•
	600 x 2000 x 700		8607.840	•	•		•	•
1500 W	800 x 1800 x 700	230, 50/60	8887.150	•	•	•	•	•
	800 x 2000 x 700		8807.100	•	•	•	•	•
	800 x 1800 x 700	400, 2~, 50/60	8887.140	•	•	•	•	•
	800 x 2000 x 700		8807.140	•	•	•	•	•
2000 W	1200 x 1800 x 700	230, 50/60	8287.170	•	•			•
			8807.180	•	•			•
	1200 x 2000 x 700		8207.170	•	•			•
			8207.180	•	•			•
2500 W	1200 x 1800 x 700	400, 3~, 50/60	8807.260					•
	1200 x 2000 x 700		8807.250					•



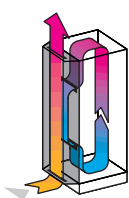
Climate control side panels for TS

Useful cooling output	For enclosure dimensions W x H mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
1100 W	1800 x 600	230, 50/60	3331.116					•
	2000 x 600		3331.316					•
	1800 x 600	400, 2~, 50/60	3331.140					•
	2000 x 600		3331.340					•
1400 W	1800 x 600	230, 50/60	3331.216					•
	2000 x 600		3331.416					•
	1800 x 600	400, 2~, 50/60	3331.240					•
	2000 x 600		3331.440					•



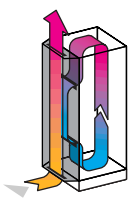
Climate control doors for single-door TS 8 enclosures with thermostat

Useful cooling output	For enclosure dimensions W x H mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
1100 W	600 x 1800	230, 50/60	3306.880	•	•		•	•
	600 x 2000		3306.800	•	•		•	•
	600 x 1800	400, 2~, 50/60	3306.884	•	•		•	•
	600 x 2000		3306.840	•	•		•	•
1500 W	600 x 1800	230, 50/60	3307.880					•
	600 x 2000		3307.800					•
	600 x 1800	400, 2~, 50/60	3307.890					•
	600 x 2000		3307.840					•
	800 x 1800	230, 50/60	3308.880	•	•	•	•	•
	800 x 2000		3308.800	•	•	•	•	•
	800 x 1800	400, 2~, 50/60	3308.884	•	•	•	•	•
	800 x 2000		3308.840	•	•	•	•	•
2000 W	600 x 1800	230, 50/60	3309.880	•	•			•
	600 x 2000		3309.800	•	•			•
	600 x 1800	400, 2~, 50/60	3309.884	•	•			•
	600 x 2000		3309.840	•	•			•
2500 W	600 x 1800	400, 3~, 50/60	3310.880					•
	600 x 2000		3310.800					•



Climate control doors for single-door TS 8 enclosures with microcontroller

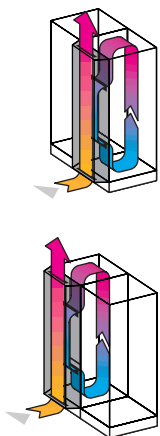
Useful cooling output	For enclosure dimensions W x H mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
1100 W	600 x 1800	230, 50/60	3306.580	•	•			•
	600 x 2000		3306.500	•	•			•
	600 x 1800	400, 2~, 50/60	3306.590	•	•			•
	600 x 2000		3306.540	•	•			•
1500 W	600 x 1800	230, 50/60	3307.580					•
	600 x 2000		3307.500					•
	600 x 1800	400, 2~, 50/60	3307.590					•
	600 x 2000		3307.540					•
	800 x 1800	230, 50/60	3308.580	•	•			•
	800 x 2000		3308.500	•	•			•
	800 x 1800	400, 2~, 50/60	3308.590	•	•			•
	800 x 2000		3308.540	•	•			•
2000 W	600 x 1800	230, 50/60	3309.580	•	•			•
	600 x 2000		3309.500	•	•			•
	600 x 1800	400, 2~, 50/60	3309.590	•	•			•
	600 x 2000		3309.540	•	•			•
2500 W	600 x 1800	400, 3~, 50/60	3310.580					•
	600 x 2000		3310.500					•





Climate control doors for two-door TS 8 enclosures

Useful cooling output	For enclosure dimensions W x H mm	Voltage V, Hz	Device position	Model No. SK		Approvals				
				with thermostat	with microcontroller	UL	CUL	DIN	GS	CE
1100 W	1200 x 1800	230	right	3306.250	3306.550	•	•			•
		400, 2~		3306.450	3306.650	•	•			•
	1200 x 2000	230		3306.210	3306.510	•	•			•
		400, 2~		3306.410	3306.610	•	•			•
	1200 x 1800	230	left	3306.270	3306.570	•	•			•
		400, 2~		3306.470	3306.670	•	•			•
1200 x 2000	230	3306.230		3306.530	•	•			•	
	400, 2~	3306.430		3306.630	•	•			•	
1500 W	1200 x 1800	230	right	3307.250	3307.550					•
		400, 2~		3307.450	3307.650					•
	1200 x 2000	230		3307.210	3307.510					•
		400, 2~		3307.410	3307.610					•
	1200 x 1800	230	left	3307.270	3307.570					•
		400, 2~		3307.470	3307.670					•
1200 x 2000	230	3307.230		3307.530					•	
	400, 2~	3307.430		3307.630					•	
2000 W	1200 x 1800	230	right	3309.170	3309.570	•	•			•
		400, 2~		3309.470	3309.670					•
	1200 x 2000	230		3309.120	3309.520	•	•			•
		400, 2~		3309.420	3309.620					•
	1200 x 1800	230	left	3309.210	3309.510	•	•			•
		400, 2~		3309.410	3309.610					•
1200 x 2000	230	3309.140		3309.530	•	•			•	
	400, 2~	3309.440		3309.640					•	
2500 W	1200 x 1800	400, 3~	right	3310.250	3310.650					•
	1200 x 2000			3310.230	3310.630					•
	1200 x 1800	400, 3~	left	3310.150	3310.550					•
	1200 x 2000			3310.130	3310.530					•



Wall-mounted cooling units

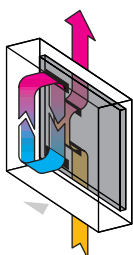
Versatility and flexibility of wall mounting

Wall-mounted cooling units – practical and elegant. Determination of the mounting cutout depends on the mounting variant – external, internal or partial internal mounting. This makes optimum use of the space available.

The enclosure surface containing the cutout for partial or full internal mounting is stabilised by the divided internal case construction. Special internal or external mounting kits are not required.

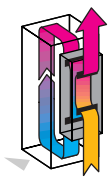
Benefits:

- Useful cooling output from 225 to 4000 W
- Extensive control and monitoring features even with the basic version
- Three-phase cooling units support multiple voltages as standard (400/460 V, 3~, 50/60 Hz)
- Uniform, performance-related, system-wide mounting cutouts. To match TopTherm air/air heat exchangers.



Wall-mounted cooling units, VIP small cooling units

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
225 W	526 x 353.5 x 105	230, 50/60	3201.100	•	•			•
			3202.100	•	•			•

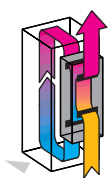


TopTherm wall-mounted cooling units

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				
			with Basic controller	with Comfort controller	UL	CUL	DIN	GS	CE
300 W	280 x 550 x 140	230, 50/60	3302.100		•	•			•
		115, 60	3302.110		•	•			•
500 W	280 x 550 x 200	230, 50/60	3303.100	3303.500	•	•			•
		115, 60	3303.110	3303.510	•	•			•
1000 W	400 x 950 x 260	230, 50/60	3304.100	3304.500	•	•			•
		115, 50/60	3304.110	3304.510	•	•			•
		400, 3~, 50 460, 3~, 60	3304.140	3304.540	•	•			•
1500 W	400 x 950 x 260	230, 50/60	3305.100	3305.500	•	•			•
		115, 50/60	3305.110	3305.510	•	•			•
		400, 3~, 50 460, 3~, 60	3305.140	3305.540	•	•			•
2000 W	400 x 1580 x 290	230, 50/60	3328.100	3328.500	•	•			•
		115, 50/60	3328.110	3328.510	•	•			•
		400, 3~, 50 460, 3~, 60	3328.140	3328.540	•	•			•
2500 W	400 x 1580 x 290	230, 50/60	3329.100	3329.500	•	•			•
		115, 50/60	3329.110	3329.510	•	•			•
		400, 3~, 50 460, 3~, 60	3329.140	3329.540	•	•			•
4000 W	500 x 1580 x 340	400, 3~, 50 460, 3~, 60	3332.140	3332.540	•	•			•

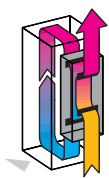
Flat cooling unit for wall mounting

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				
			with thermostat	with microcontroller	UL	CUL	DIN	GS	CE
1400 W	460 x 1575 x 132	230, 50/60	3255.100	3255.500	•	•	•	•	•
			3255.140				•	•	•
		400, 2~, 50/60	3255.540			•	•	•	



TopTherm wall-mounted cooling units, stainless steel

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				
			with Basic controller	with Comfort controller	UL	CUL	DIN	GS	CE
300 W	280 x 550 x 140	230, 50/60	3302.200		•	•			•
		115, 60	3302.210		•	•			•
500 W	280 x 550 x 200	230, 50/60	3303.200	3303.600	•	•			•
		115, 60	3303.210	3303.610	•	•			•
1000 W	400 x 950 x 260	230, 50/60	3304.200	3304.600	•	•			•
		115, 50/60	3304.210	3304.610	•	•			•
		400, 3~, 50 460, 3~, 60	3304.240	3304.640	•	•			•
1500 W	400 x 950 x 260	230, 50/60	3305.200	3305.600	•	•			•
		115, 50/60	3305.210	3305.610	•	•			•
		400, 3~, 50 460, 3~, 60	3305.240	3305.640	•	•			•
2000 W	400 x 1580 x 290	230, 50/60	3328.200	3328.600	•	•			•
		115, 50/60	3328.210	3328.610	•	•			•
		400, 3~, 50 460, 3~, 60	3328.240	3328.640	•	•			•
2500 W	400 x 1580 x 290	230, 50/60	3329.200	3329.600	•	•			•
		115, 50/60	3329.210	3329.610	•	•			•
		400, 3~, 50 460, 3~, 60	3329.240	3329.640	•	•			•
4000 W	500 x 1580 x 340	400, 3~, 50 460, 3~, 60	3332.240	3332.640	•	•			•



Wall-mounted cooling units NEMA 4x

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				
			with Basic controller	with Comfort controller	UL	CUL	DIN	GS	CE
500 W	280 x 550 x 200	230, 50/60	3303.104	3303.504	•	•			•
		115, 50/60	3303.114	3303.514	•	•			•
1000 W	400 x 950 x 260	230, 50/60	3304.104	3304.504					•
		115, 50/60	3304.114	3304.514					•
		400, 3~, 50 460, 3~, 60	3304.144	3304.544					•
1500 W	400 x 950 x 260	230, 50/60	3305.104	3305.504					•
		115, 50/60	3305.114	3305.514					•
		400, 3~, 50 460, 3~, 60	3305.144	3305.544					•
2000 W	400 x 1580 x 290	230, 50/60	3328.104	3328.504					•
		115, 50/60	3328.114	3328.514					•
		400, 3~, 50 460, 3~, 60	3328.144	3328.544					•
2500 W	400 x 1580 x 290	230, 50/60	3329.104	3329.504					•
		115, 50/60	3329.114	3329.514					•
		400, 3~, 50 460, 3~, 60	3329.144	3329.544					•

Roof-mounted cooling units

Versatility and flexibility of roof mounting

Rittal TopTherm roof-mounted cooling units offer top design and top performance with a host of assembly benefits and sophisticated air routing.

The system-wide mounting cutouts may also be used for the new roof-mounted fans for TS. Super performance plus cost-cutting design.

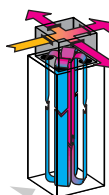
Targeted air routing inside the enclosure

The internal air circulation is targeted and effective: The heated air is extracted centrally. Air exhaust occurs in the four corners, depending on requirements. Cold air is routed in a controlled manner into the lower enclosure chamber via the optional ducting system. The result is highly effective cooling and the avoidance of air short-circuits.

The targeted air circulation inside the enclosure via ducts also prevents the creation of hot spots. The cold air flow should not be directed straight at active components, so as to avoid the formation of condensation.

Benefits:

- Useful cooling output from 500 to 4000 W
- Extensive control and monitoring features even with the basic version
- Three-phase cooling units support multiple voltages as standard
- Uniform, performance-related, system-wide mounting cutouts
- Targeted, individual air routing



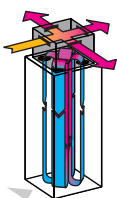
TopTherm roof-mounted cooling units

Useful cooling output	For enclosure dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				
			with Basic controller	with Comfort controller	UL	CUL	DIN	GS	CE
500 W	595 x 415 x 375	230, 50/60	3382.100	3382.500	•	•			•
		115, 50/60	3382.110	3382.510	•	•			•
1000 W	595 x 415 x 475	230, 50/60	3383.100	3383.500	•	•			•
		115, 50/60	3383.110	3383.510	•	•			•
		400, 2~, 50/60	3383.140	3383.540	•	•			•
1500 W	595 x 415 x 475	230, 50/60	3384.100	3384.500	•	•			•
		115, 50/60	3384.110	3384.510	•	•			•
		400, 2~, 50/60	3384.140	3384.540	•	•			•
2000 W	595 x 415 x 475	230, 50/60	3385.100	3385.500	•	•			•
		115, 50/60	3385.110	3385.510	•	•			•
		400, 2~, 50/60	3385.140	3385.540	•	•			•
3000 W	795 x 470 x 580	400, 3~, 50 460, 3~, 60	3386.140	3386.540	•	•			•
4000 W	795 x 470 x 580	400, 3~, 50 460, 3~, 60	3387.140	3387.540	•	•			•

Roof-mounted cooling units for the office sector

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
1100 W	598 x 415 x 510	115, 50/60	3273.515					•
		230, 50/60	3273.500					•

TopTherm roof-mounted cooling units, stainless steel



Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				
			with Basic controller	with Comfort controller	UL	CUL	DIN	GS	CE
500 W	595 x 415 x 375	230, 50/60	3382.200	3382.600	•	•			•
		115, 50/60	3382.210	3382.610	•	•			•
1000 W	595 x 415 x 475	230, 50/60	3383.200	3383.600	•	•			•
		115, 50/60	3383.210	3383.610	•	•			•
		400, 2~, 50/60	3383.240	3383.640	•	•			•
1500 W	595 x 415 x 475	230, 50/60	3384.200	3384.600	•	•			•
		115, 50/60	3384.210	3384.610	•	•			•
		400, 2~, 50/60	3384.240	3384.640	•	•			•
2000 W	595 x 415 x 475	230, 50/60	3385.200	3385.600	•	•			•
		115, 50/60	3385.210	3385.610	•	•			•
		400, 2~, 50/60	3385.240	3385.640	•	•			•
3000 W	795 x 470 x 580	400, 3~, 50 460, 3~, 60	3386.240	3386.640	•	•			•
4000 W	795 x 470 x 580	400, 3~, 50 460, 3~, 60	3387.240	3387.640	•	•			•

Air/air heat exchangers

Outstanding performance and design

The requirement for use of air/air heat exchangers is that the ambient temperature must be below the enclosure internal temperature.

Dust and aggressive ambient air are unable to enter the enclosure interior, thanks to the two separate air circuits.

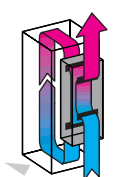
In all situations where the ambient air is sufficient for cooling, air/air heat exchangers offer effective, energy-saving solutions.

The high specific thermal output is attributable to the special construction and functional design of the heat exchangers:

- A large heat exchanger area with compact dimensions
- Exceptionally conductive materials and connections
- Fans that may be controlled separately
- Optimum flow conditions

Benefits:

- Specific thermal output from 17.5 to 90 W/K
- External and internal circuit may be controlled separately
- Mounting cutouts and enclosure dimensions identical to TopTherm wall-mounted cooling units
- Suitable for external and internal mounting
- Top design identical to TopTherm wall-mounted cooling units



TopTherm heat exchangers

Specific thermal output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
17.5 W/K	280 x 550 x 150	230, 50/60	3126.100					•
30.0 W/K	400 x 950 x 205	230, 50/60	3127.100					•
45.0 W/K	400 x 950 x 225	230, 50/60	3128.100					•
60.0 W/K	400 x 950 x 225	230, 50/60	3129.100					•
90.0 W/K	400 x 1580 x 215	230, 50/60	3130.100					•

Air/water heat exchanger

The interior enclosure air is cooled by integrating into an existing cooling water circuit or connecting to a large cooling unit from Rittal.

The cooling medium (water) absorbs the heat from the interior enclosure air in the membrane heat exchanger and dissipates it to the outside. The heated cooling water is re-cooled in the closed circuit and can be re-used continuously.

Benefits:

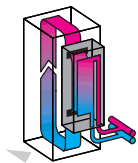
- Ideal in combination with Rittal recooling systems
- Dissipation of high heat loads
- Also suitable for use under extreme environmental conditions



Air/water heat exchanger

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				
			Wall mounting	Roof mounting	UL	CUL	DIN	GS	CE
650 W	200 x 500 x 100	230, 50/60	3214.100						●
1100 W	298 x 520 x 135	230, 50/60	3217.100		●	●			●
1300 W	200 x 950 x 100	230, 50/60	3215.100						●
1700 W	380 x 825 x 105	230, 50/60	3247.100		●	●			●
2650 W	400 x 950 x 200	230, 50/60	3218.104¹⁾						●
3500 W	400 x 950 x 200	230, 50/60	3218.100		●	●			●
5000 W	450 x 1400 x 250	230, 50/60	3216.100		●	●			●
1900 W	547 x 280 x 404	230, 50/60		3249.104¹⁾					●
2500 W	547 x 280 x 404	230, 50/60		3249.100	●	●			●
4000 W	600 x 400 x 400	230, 50/60		3219.100					●

¹⁾ All water-carrying parts made from stainless steel V4A (1.4571)



Air/water heat exchanger as a side panel for TS 8

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
700 W	600 x 1800 x 95	230, 50/60	3316.180					●
700 W	600 x 2000 x 95	230, 50/60	3316.200					●

Recooling systems

Recooling systems can be used in all situations where a high cooling output is required. They are tailored to the heat load of the equipment being cooled, in accordance with the customer's specifications. Recooling systems are used to dissipate heat loss, for process and machine cooling, and for media cooling such as oil and water, as well as for enclosure air-conditioning.

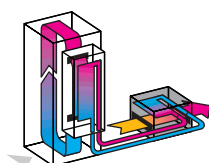
Benefits:

- Enclosure, machine and process cooling
- Water, oil and emulsion cooling
- Individual project planning



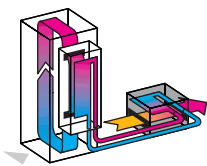
Mini-recooling systems

Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK		Approvals				
			Roof mounting	Wall mounting	UL	CUL	DIN	GS	CE
1000 W	400 x 950 x 310	400, 3~, 50/60		3360.100					●
2500 W	400 x 1580 x 290	400, 3~, 50/60		3360.250					●
4000 W	500 x 1580 x 340	400, 3~, 50/60		3360.400					●
960 W	600 x 400 x 430	230, 50/60		3318.600					●
				3318.610					●
1490 W	600 x 400 x 430	230, 50/60		3319.600					●
				3319.610					●
3000 W	600 x 680 x 625	400, 3~, 50/60		3320.600					●
4500 W	600 x 680 x 625	400, 3~, 50/60		3334.600					●





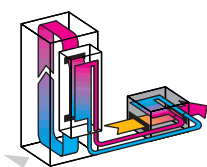
Recooling systems in a floor standing enclosure



Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
2100 W	470 x 725 x 540	400, 3~, 50	3336.100					•
2580 W	485 x 965 x 650	400, 3~, 50	3336.200					•
3360 W	485 x 965 x 650	400, 3~, 50	3336.300					•
5040 W	595 x 1180 x 800	400, 3~, 50	3336.500					•
6160 W	595 x 1180 x 800	400, 3~, 50	3336.600					•
7700 W	595 x 1180 x 800	400, 3~, 50	3336.650					•
10000 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3336.700					•
14350 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3336.710					•
16300 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3336.720					•
18500 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3336.730					•
20900 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3336.740					•
25200 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3336.750					•



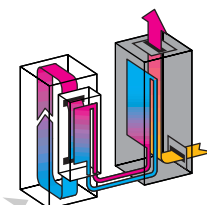
Recooling systems in a floor standing enclosure for oil



Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
2550 W	485 x 965 x 650	400, 3~, 50	3337.200					•
3400 W	485 x 965 x 650	400, 3~, 50	3337.300					•
5150 W	595 x 1180 x 800	400, 3~, 50	3337.500					•
6700 W	595 x 1180 x 800	400, 3~, 50	3337.600					•
7900 W	595 x 1180 x 800	400, 3~, 50	3337.650					•
10600 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3337.700					•
15150 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3337.710					•
17200 W	615 x 1178 x 1160	400, 3~, 50 460, 3~, 60	3337.720					•
19250 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3337.730					•
21600 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3337.740					•
26100 W	715 x 1178 x 1360	400, 3~, 50 460, 3~, 60	3337.750					•



Recooling systems in the TS 8 Top enclosure system

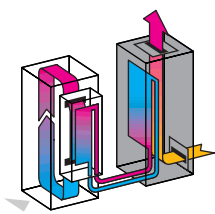


Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
6000 W	600 x 2000 x 600	400, 3~, 50	3335.060					•
7500 W	600 x 2000 x 600	400, 3~, 50	3335.075					•
10000 W	800 x 2000 x 600	400, 3~, 50	3335.100					•
12000 W	800 x 2000 x 600	400, 3~, 50	3335.120					•
15000 W	800 x 2000 x 600	400, 3~, 50	3335.150					•
20000 W	1200 x 2000 x 600	400, 3~, 50	3335.200					•
25000 W	1200 x 2000 x 600	400, 3~, 50	3335.250					•



Recirculating systems in an industrial enclosure

Cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
32025 W	815 x 1400 x 1560	400, 3~, 50 460, 3~, 60	3339.100					•
36225 W	815 x 1400 x 1560	400, 3~, 50 460, 3~, 60	3339.200					•
66700 W	1550 x 2000 x 2500	400, 3~, 50	3339.300					•
75900 W	1550 x 2000 x 2500	400, 3~, 50	3339.400					•
172200 W	1630 x 2200 x 3400	400, 3~, 50	3339.500					•



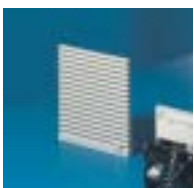
Fan-and-filter unit

Powerful axial fans can be installed either "blowing" or "extracting". The rain canopy function of the vent grille protects against both mechanical damage and penetrating dampness. Thanks to the all-round foamed-in seal, protection category IP 54 to EN 60 529/10.91 is achieved as standard.

A hose-proof hood to achieve protection category IP 65 is also available. Recessed handles on the louvred grille facilitate easy filter mat changes.

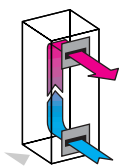
Benefits:

- Quiet performance
- Quick assembly without screws
- Super-slimline grille



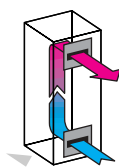
Fan-and-filter units

Air throughput, unimpeded air flow	Voltage V, Hz	Model No. SK	Approvals					
			UL	CUL	DIN	GS	CE	CSA
20/25 m³/h	230, 50/60	3321.100	•	•			•	
20/25 m³/h	115, 50/60	3321.115	•	•			•	
20 m³/h	24 (DC)	3321.024	•	•			•	
20 m³/h	48 (DC)	3321.048	•	•			•	
55/66 m³/h	230, 50/60	3322.100	•	•			•	•
55/66 m³/h	115, 50/60	3322.115	•	•			•	•
55 m³/h	24 (DC)	3322.024	•	•			•	•
55 m³/h	48 (DC)	3322.048	•	•			•	•
105/120 m³/h	230, 50/60	3323.100	•	•			•	•
105/120 m³/h	115, 50/60	3323.115	•	•			•	•
105 m³/h	24 (DC)	3323.024	•	•			•	•
105 m³/h	48 (DC)	3323.048	•	•			•	•
180/160 m³/h	230, 50/60	3324.100	•	•			•	•
180/160 m³/h	115, 50/60	3324.115	•	•			•	•
180 m³/h	24 (DC)	3324.024	•	•			•	•
180 m³/h	48 (DC)	3324.048	•	•			•	•
230/265 m³/h	230, 50/60	3325.100	•	•			•	•
230/265 m³/h	115, 50/60	3325.115	•	•			•	•
230 m³/h	24 (DC)	3325.024	•	•			•	•
230 m³/h	48 (DC)	3325.048	•	•			•	•
500/560 m³/h	230, 50/60	3326.100	•	•			•	•
500/560 m³/h	115, 50/60	3326.115	•	•			•	•
700/720 m³/h	230, 50/60	3327.100	•	•			•	•
700/720 m³/h	115, 50/60	3327.115	•	•			•	•
700/720 m³/h	400/460, 3~, 50/60	3327.140	•	•			•	•





EMC fan-and-filter units



Air throughput, unimpeded air flow	Voltage Volt, Hz	Model No. SK	Approvals					
			UL	CUL	DIN	GS	CE	CSA
20/25 m³/h	230, 50/60	3321.600	•	•			•	
20/25 m³/h	115, 50/60	3321.615	•	•			•	
55/66 m³/h	230, 50/60	3322.600	•	•			•	
55/66 m³/h	115, 50/60	3322.615	•	•			•	
105/120 m³/h	230, 50/60	3323.600	•	•			•	
105/120 m³/h	115, 50/60	3323.615	•	•			•	
180/160 m³/h	230, 50/60	3324.600	•	•			•	
180/160 m³/h	115, 50/60	3324.615	•	•			•	
230/265 m³/h	230, 50/60	3325.600	•	•			•	
230/265 m³/h	115, 50/60	3325.615	•	•			•	
500/560 m³/h	230, 50/60	3326.600	•	•			•	
500/560 m³/h	115, 50/60	3326.615	•	•			•	
700/720 m³/h	230, 50/60	3327.600	•	•			•	
700/720 m³/h	115, 50/60	3327.615	•	•			•	

Roof-mounted fan

Roof-mounted fans are used in all situations where there is no vertical mounting surface available on enclosures, e.g. due to space constrictions. Roof-mounted fans are available for universal use, and in a new variant tailored to TS enclosures.

These roof-mounted fans are already integrated into a roof plate with cable entry and can therefore be retro-fitted without major effort. The work of creating mounting cutouts is eliminated. Thanks to the extremely low noise level, they are ideal for use in sensitive office regions.

Benefits:

- Fast assembly
- Targeted air routing to avoid hot spots
- Optimised air throughput

Model No. SK	3164.610	3164.620	3164.810	3164.820	3164.115	3164.230
Rated operating voltage V, Hz	115, 50/60	230, 50/60	115, 50/60	230, 50/60	115, 50/60	230, 50/60
Air throughput (unimpeded air flow)	1500 m³/h*					
Design	with roof plate			without roof plate		
Dimensions in mm	W	800	800	511		
	H	240	240	227		
	D	800	900	511		
Radial fan						
Noise level	40 dB (A)					
Temperature range	+20°C to +55°C					
Colour	RAL 7035					

* 800 m³/h with 40 Pa counter-pressure using two integrated louvres type DK 7580.500 in the enclosure base/plinth. Special voltages available on request. We reserve the right to make technical modifications.

Roof-mounted fan and vent attachment for TS 8

The active roof-mounted fan and the passive vent attachment (TS 8801.380) integrate perfectly into the system-wide mounting concept of Rittal system climate control. They fit precisely onto the cutouts of the small and medium performance category of TopTherm roof-mounted cooling units.

Of course, they may also be mounted on any sufficiently large roof surface. TS 8 roof plates with prepared mounting cutouts are additionally available.

Model No. SK	3149.410	3149.420	3149.440	3149.810	3149.820	3149.840	8801.380
Rated operating voltage V, Hz	115, 50/60	230, 50/60	400, 3~, 50/60 460, 3~, 60	115, 50/60	230, 50/60	400, 3~, 50/60 460, 3~, 60	Roof vent
Air throughput, unimpeded air flow	400 m³/h			800 m³/h			Without motor
Required mounting cutout	W x D mm 475 x 260						490 x 390
Power consumption of fan	120 W/170 W		95 W/140 W	170 W/225 W		180 W/310 W	
Rated current of fan	1.1/1.6 A	0.55/0.88 A	0.35/0.35 A	1.5/2.2 A	0.75/1.1 A	0.35/0.55 A	
Temperature range	-10°C to +55°C						
Noise level	68/69 dB (A)			69/70 dB (A)			
Weight	10 kg			11 kg			
Colour shade	RAL 7035						

Rack-mounted cooling units

The cooling unit is easily rack-mounted in pre-populated 482.6 mm (19") electronic enclosures. Use of the rack-mounted cooling unit inside the enclosures permits direct climate control of the slide-in electronic components.

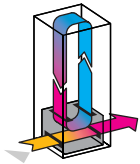
Benefits:

- Simple assembly
- Permanent air circulation inside the electronic enclosure



Rack-mounted cooling units

Useful cooling output	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
1000 W	445 x 265.9 x 542	115, 50/60	3278.134					•
		230, 50/60	3292.134					•



Rack-mounted fan/centrifugal fan for installation in 482.6 mm (19")

Developed especially for 482.6 mm (19") electronic requirements, rack-mounted fans ensure permanent air movement inside the enclosure. The creation of hot spots, particularly in the upper part of the enclosure, is thereby avoided.

With higher heat loads and densely populated electronic enclosures, centrifugal fans are suitable for effective heat dissipation. Rack-mounted fans support convection and help to prevent the formation of hot spots.

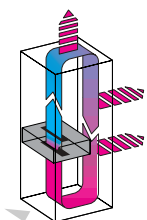
Vario rack-mounted fan:

- Can be removed like a drawer for servicing (with guide frame)
- Installation in sub racks or directly in electronic cases or enclosures



Rack-mounted fan

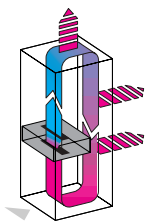
Air throughput, unimpeded air flow	No. of fans	Distance between axes mm	Voltage V, Hz	Model No. SK	Approvals					
					UL	CUL	DIN	GS	CE	VDE
320 m³/h	2	85	24 (DC)	3340.024	•	•			•	•
320 m³/h	2	85	115 (AC), 50/60	3340.115	•	•			•	•
320 m³/h	2	85	230 (AC), 50/60	3340.230	•	•			•	•
480 m³/h	3	85	24 (DC)	3341.024	•	•			•	•
480 m³/h	3	105	24 (DC)	3342.024	•	•			•	•
480 m³/h	3	85	115 (AC), 50/60	3341.115	•	•			•	•
480 m³/h	3	105	115 (AC), 50/60	3342.115	•	•			•	•
480 m³/h	3	85	230 (AC), 50/60	3341.230	•	•			•	•
480 m³/h	3	105	230 (AC), 50/60	3342.230	•	•			•	•
480 m³/h	3	105	24 (DC) 115 – 230 (AC), 50/60	3342.500	•	•			•	•





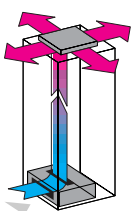
Vario rack-mounted fan

Air throughput, unimpeded air flow	No. of fans	Distance between axes mm	Voltage V, Hz	Model No. SK	Approvals					
					UL	CUL	DIN	GS	CE	VDE
320 m³/h	2	85	24 (DC)	3350.024	•	•			•	•
320 m³/h	2	85	115 (AC), 50/60	3350.115	•	•			•	•
320 m³/h	2	85	230 (AC), 50/60	3350.230	•	•			•	•
480 m³/h	3	85	24 (DC)	3351.024	•	•			•	•
480 m³/h	3	105	24 (DC)	3352.024	•	•			•	•
480 m³/h	3	85	115 (AC), 50/60	3351.115	•	•			•	•
480 m³/h	3	105	115 (AC), 50/60	3352.115	•	•			•	•
480 m³/h	3	85	230 (AC), 50/60	3351.230	•	•			•	•
480 m³/h	3	105	230 (AC), 50/60	3352.230	•	•			•	•
480 m³/h	3	105	24 (DC) 115 – 230 (AC), 50/60	3352.500	•	•			•	•



Centrifugal fan

Air throughput, unimpeded air flow	Dimensions W x H x D mm	Voltage V, Hz	Model No. SK	Approvals				
				UL	CUL	DIN	GS	CE
320 m³/h	482.6 x 87.2 x 158	115, 50/60	3145.000					•
		230, 50/60	3144.000					•



Enclosure heaters

Enclosure interiors are equipped with heaters primarily to prevent condensation or to protect against frost. Hot and cold – extreme temperature fluctuations create the ideal conditions for hazardous condensation.

Small, powerful and robust – Rittal enclosure heaters prevent malfunctions and corrosion in enclosures. Rittal enclosure heaters guarantee effective heating in the smallest possible space and are tailored to each specific application. The arrangement of the aluminium heating fins guarantees even temperature distribution, thereby ensuring an optimum heating effect across the entire surface.

Benefits:

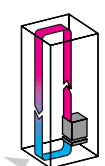
- Fast assembly
- Surface temperature limited by a PTC element
- Small, powerful and robust



Enclosure heaters

Continuous thermal output at T _u = 20°C	Voltage V, Hz	Model No. SK	Approvals					
			UL	CUL	DIN	GS	CE	VDE
10 W	110 – 240 (AC/DC)	3105.000	•	•			•	•
20 W	110 – 240 (AC/DC)	3106.000	•	•			•	•
30 W	110 – 240 (AC/DC)	3115.000	•	•			•	•
50 W	110 – 240 (AC/DC)	3116.000	•	•			•	•
130 W/200 W*	110 – 240 (AC/DC)	3107.000	•	•			•	•
300 W*	230, 50/60	3102.000	•	•			•	•

* Output with fan



Power distribution . . .

. . . The benefit lies in the system

Modern power distribution systems are becoming ever more powerful. For this reason, users demand the security of internationally recognised and approved power distribution components.

Rittal provides the switchgear designer with innovative systems in line with regulations.

Type testing on short-circuit resistance, which is performed in accredited laboratories, provides an impressive testimony to the suitability of Rittal busbar systems.

Successful solutions for industrial power distribution

- SV busbar systems
- SV connection systems
- SV bus-mounting fuse bases
- NH bus-mounting on-load isolators
- NH fused isolators
- SV component adaptors
- SV-TS 8 and Maxi-PLS
- ISV installation distribution enclosures

Detailed information can be found in the catalogue "Power distribution components" or on our website

Mini-PLS busbar system up to 250 A (40 mm bar centre distance)

Rittal Mini-PLS up to 250 A . . .

. . . the bar concept

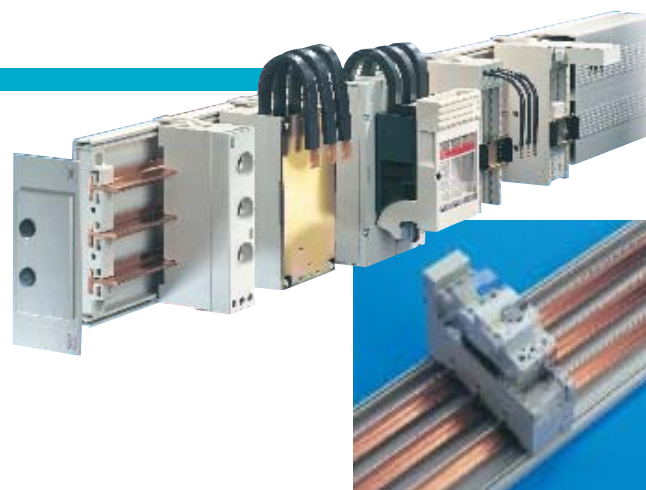
- Blade bar for elegant connection and secure contacting of components.
- High static and thermal load capacity, thanks to the T support form of the special profile.
- Special busbars in practical sizes.

. . . the compact concept

- Component assembly via connection from the front.
- Precise-fit installation, because the build height (160 mm) matches the installation space requirement exactly.
- Unrestricted top mounting of the busbar supports and bar connector elements.

. . . the safety concept

- All-round protection with a base tray section, cover section and end cover.
- Also forms a closed modular unit in conjunction with connection adaptors and component adaptors.
- Material to UL 94-V0.



Mini-PLS components

Description	Length	Packs of	Model No. SV
Mini-PLS busbar supports up to 250 A, 3-pole	–	4	9600.000
Mini-PLS special busbars E-Cu 250 A, 120 mm ²	500 mm	3	9601.000
	700 mm	3	9602.000
	1100 mm	3	9603.000
	1500 mm	3	9624.000
Mini-PLS base tray sections	250 mm	1	9604.000
	500 mm	1	9605.000
	700 mm	1	9606.000
	1100 mm	1	9607.000
Mini-PLS cover sections	250 mm	1	9608.000
	500 mm	1	9609.000

Mini-PLS busbar connection adaptor

Design	Packs of	Model No. SV
63 A, 690 V AC, for round conductors up to 35 mm ² and laminated copper bars, clamping area 10 x 8 mm	1	9613.000
63 A to 250 A, 690 V AC, for round conductors up to 120 mm ² and laminated copper bars, clamping area 17 x 15 mm	1	9612.000

Mini-PLS component adaptor

Construction width	Rated current max.	Rated operating voltage	Connection cables*	Support rails		Packs of	Model No. SV
				Height	Number		
45 mm	12 A	690 V~	AWG 14	7.5 mm	1	1	9614.110
45 mm	25 A	690 V~	AWG 12	7.5 mm	1	1	9614.100
45 mm	25 A	690 V~	AWG 12	15.0 mm	1	1	9615.100
54 mm	25 A	690 V~	AWG 12	7.5 mm	1	1	9614.000
54 mm	25 A	690 V~	AWG 12	15.0 mm	1	1	9615.000
54 mm	40 A	690 V~	AWG 10	7.5 mm	1	1	9616.000
54 mm	40 A	690 V~	AWG 10	15.0 mm	1	1	9617.000
72 mm	25 A	690 V~	AWG 12	7.5 mm	1	1	9625.000
72 mm	25 A	690 V~	AWG 12	15.0 mm	1	1	9626.000
72 mm	40 A	690 V~	AWG 10	7.5 mm	1	1	9627.000
72 mm	40 A	690 V~	AWG 10	15.0 mm	1	1	9628.000
90 mm	25 A	690 V~	AWG 12	7.5 mm	1	1	9629.010
99 mm	25 A	690 V~	AWG 12	15.0 mm	1	1	9629.020
108 mm	25 A	690 V~	AWG 12	7.5 mm	1	1	9629.030
90 mm	100 A	690 V~	35 mm ²	-	-	1	9629.000

Mini-PLS quick-fit component adaptor

Construction width	Rated current max.**	Rated operating voltage	For power circuit-breakers	Packs of	Model No. SV
54 mm	25 A (32 A)	690 V~	AEG, General Electric, Schiele	1	9618.000
54 mm	25 A (32 A)	690 V~	Moeller Electric	1	9619.000
54 mm	25 A (32 A)	690 V~	Moeller Electric, Allen Bradley	1	9620.000
54 mm	25 A (32 A)	690 V~	Telemecanique	1	9621.000
54 mm	25 A (32 A)	690 V~	Siemens, ABB, Telemecanique	1	9622.000

Mini-PLS bus-mounting fuse base D 02-E 18

Design	Packs of	Model No. SV
63 A, 400 V AC, terminal for round conductors up to 16 mm ²	1	9630.000

* AWG = American Wire Gauges
 AWG 14 = 2.08 mm² \triangleq 2.5 mm²
 AWG 12 = 3.31 mm² \triangleq 4 mm²
 AWG 10 = 5.26 mm² \triangleq 6 mm²

** Rated current 25 A at 35°C and 32 A at an ambient temperature of 25°C.

SV busbar system up to 360 A (40 mm bar centre distance)

Rittal has added the finishing touches to its busbar system range with the SV busbar system up to 360 A with flat copper bars. The 40 mm rail system is used in all situations where inexpensive rail systems in the lower current range are to be fitted with motor junctions.

The new multi-functional component adaptor provides an ideal low-cost variant of the latest rail system technology.



Busbar support

Design	Packs of	Model No. SV
Rated current up to 360 A, 3-pole, for busbars E-Cu 12 x 5 to 15 x 10 mm	4	9350.000

Busbar connection adaptor

Design	For busbars E-Cu	Packs of	Model No. SV
360 A to 690 V AC, for round conductors up to 120 mm ² (max. 250 A) and laminated copper bars (max. 360 A), clamping area 17 x 15 mm	12 x 5/10 mm	1	9350.020
	15 x 5/10 mm	1	9350.030

Multi-functional component adaptor

Construction width	Rated current max.	Rated operating voltage	Connection cables*	Connection of round conductors up to	Cable outlet	Support rails		For bar thickness	Packs of	Model No. SV
						Height	Number			
45 mm	12 A	690 V~	AWG 14	-	top	10 mm	1	5 mm	1	9350.080
45 mm	12 A	690 V~	AWG 14	-	top	10 mm	1	10 mm	1	9350.090
45 mm	25 A	690 V~	AWG 12	-	top	10 mm	1	5 mm	1	9350.100
45 mm	25 A	690 V~	AWG 12	-	top	10 mm	1	10 mm	1	9350.110
45 mm	25 A	690 V~	AWG 12	-	top	10 mm	2	5 mm	1	9350.120
45 mm	25 A	690 V~	AWG 12	-	top	10 mm	2	10 mm	1	9350.130
45 mm	25 A	690 V~	AWG 12	-	top	10 mm	2 (1 var.)	5 mm	1	9350.140
45 mm	25 A	690 V~	AWG 12	-	top	10 mm	2 (1 var.)	10 mm	1	9350.150
45 mm	25 A	690 V~	-	16 mm ²	top	10 mm	2 (1 var.)	5 mm	1	9350.160
45 mm	25 A	690 V~	-	16 mm ²	top	10 mm	2 (1 var.)	10 mm	1	9350.170
45 mm	25 A	690 V~	-	16 mm ²	top/bottom	10 mm	2	5 mm	1	9350.180
45 mm	25 A	690 V~	-	16 mm ²	top/bottom	10 mm	2	10 mm	1	9350.190
45 mm	25 A	690 V~	AWG 12	-	top	10 mm	2	5 mm	1	9350.260
45 mm	25 A	690 V~	AWG 12	-	top	10 mm	2	10 mm	1	9350.270
54 mm	40 A	690 V~	AWG 10	-	top	10 mm	2	5 mm	1	9350.200
54 mm	40 A	690 V~	AWG 10	-	top	10 mm	2	10 mm	1	9350.210
54 mm	40 A	690 V~	-	16 mm ²	top	10 mm	2	5 mm	1	9350.220
54 mm	40 A	690 V~	-	16 mm ²	top	10 mm	2	10 mm	1	9350.230
54 mm	40 A	690 V~	-	16 mm ²	top/bottom	10 mm	2	5 mm	1	9350.240
54 mm	40 A	690 V~	-	16 mm ²	top/bottom	10 mm	2	10 mm	1	9350.250
54 mm	40 A	690 V~	AWG 10	-	top	15 mm	1	5 mm	1	9350.340
54 mm	40 A	690 V~	AWG 10	-	top	15 mm	1	10 mm	1	9350.350
90 mm	25 A	690 V~	AWG 12	-	top	10 mm	1	5 mm	1	9350.280
90 mm	25 A	690 V~	AWG 12	-	top	10 mm	1	10 mm	1	9350.290
99 mm	25 A	690 V~	AWG 12	-	top	10 mm	2	5 mm	1	9350.300
99 mm	25 A	690 V~	AWG 12	-	top	10 mm	2	10 mm	1	9350.310
108 mm	25 A	690 V~	AWG 12	-	top	10 mm	2	5 mm	1	9350.320
108 mm	25 A	690 V~	AWG 12	-	top	10 mm	2	10 mm	1	9350.330

Component adaptor

Design	For busbars E-Cu	Packs of	Model No. SV
100 A, 690 V AC, construction width 90 mm, cable outlet at the top, connection cables 35 mm ²	12 x 5/10 mm	1	9350.420
	15 x 5/10 mm	1	9350.430

Bus-mounting fuse base D 02-E 18

Design	Packs of	Model No. SV
63 A, 400 V AC, for busbars E-Cu 12 x 5 mm and 12 x 10 mm, terminal for round conductors up to 16 mm ²	1	9350.050

* AWG = American Wire Gauges
 AWG 14 = 2.08 mm² Δ 2.5 mm²
 AWG 12 = 3.31 mm² Δ 4 mm²
 AWG 10 = 5.26 mm² Δ 6 mm²

PLS busbar systems up to 800 A/1600 A (60 mm bar centre distance)

Rittal PLS up to 800 A/ 1600 A ...

... the compact class

- 60 mm bar centre distance up to 1600 A.
- Unrestricted top mounting of the PLS busbar support with SV power distribution components.

... the safety class

- Optimum heat dissipation thanks to the large surface area of the special copper bars.
- Optimum contact hazard protection with all-round encapsulation.

... the benefit class

- An unlimited basis for all Rittal power distribution components with a bar centre distance of 60 mm.



PLS busbar supports

Rated current up to	Number of poles	Bar centre distance	For PLS bar cross-section (bar thickness)	Packs of	Model No. SV
800 A	3-pole	60 mm	300 mm ² (5 mm)	4	3500.000
1600 A	3-pole	60 mm	900 mm ² (10 mm)	4	3510.000

PLS components

Description	Length	For enclosure width	Packs of	Model No. SV for PLS 800 A	Model No. SV for PLS 1600 A
PLS special busbars E-Cu*	2400 mm	variable	1	3509.000	3516.000
	495 mm	600 mm**	3	3524.000	3527.000
	695 mm	800 mm**	3	3525.000	3528.000
	1095 mm	1200 mm**	3	3526.000	3529.000
PLS base tray sections	500 mm	–	2	3502.000	3512.000
	700 mm	–	1	3503.000	3513.000
	1100 mm	–	1	3518.000	3519.000
PLS cover sections	250 mm	–	2	3506.000	3506.000
	500 mm	–	2	3507.000	3507.000
	700 mm	–	1	3508.000	3508.000

* Bar thickness (cross-section)
PLS 800 A: 5 mm (300 mm²)
PLS 1600 A: 10 mm (900 mm²)

** For Rittal TS 8/PS/ES enclosure systems

SV busbar systems up to 800 A (60 mm bar centre distance)

Four different busbar supports for electrical copper bars with dimensions from 12 x 5 to 30 x 10 mm provide the basis for the

assembly of busbar systems for power transmission and distribution.



Busbar support

Rated current up to	Number of poles	Bar centre distance	For busbars E-Cu	Packs of	Model No. SV
800 A	3-pole	60 mm	12 x 5 – 30 x 10 mm	4	3000.000
800 A	2-pole	60 mm	12 x 5 – 30 x 10 mm	4	3050.000
800 A	1-pole	–	12 x 5 – 30 x 10 mm	4	3078.000
800 A	4-pole	60 mm	12 x 5 – 30 x 10 mm	3	3064.000

SV busbar connection adaptor (for 60 mm bar centre distance)

SV busbar connection adaptor for direct top-mounting on 3-pole busbar systems with 60 mm bar centre distance and on Rittal PLS allow round conductors and laminated flat copper to be connected with a high degree of contact stability – no drilling required.

The conductors to be connected make contact with nickel-plated contact plates, rather than directly onto the busbars. This results in safe, low heat loss current transmission.

Benefits:

- Connection without drilling
- Shock-hazard-protected equipment design to BGV-A2 (VBG 4)



Rated current up to	Rated operating voltage	Connection	Connection of round conductors up to	Clamping area for laminated copper bars	Packs of	Model No. SV
63 A	690 V~	bottom	10 mm ² /2 x 6 mm ²	–	1	3443.000
125 A	690 V~	bottom	35 mm ²	11 x 14 mm	1	3444.000
250 A	690 V~	bottom	70 mm ²	16 x 15 mm	1	3442.000
400 A	690 V~	bottom	150 mm ²	–	1	3440.000
600 A	690 V~	top/bottom	10 to 240 mm ²	24 x 21 mm	1 set	3439.010
800 A	690 V~	bottom	185 mm ²	30 x 25 mm	1	3441.000
800 A	690 V~	top/bottom	–	34 x 21 (16) mm	1 set	3439.000
1600 A	690 V~	top/bottom	–	65 x 21 mm	1 set	3517.000*

* Only suitable for Rittal PLS 1600 A

SV bus-mounting fuse bases (for 60 mm bar centre distance)

The 3-pole SV bus-mounting fuse bases, types D 02, D II and D III, are designed for use on 60 mm busbar systems and Rittal PLS with special bar sections. The special contact plate system in these

components ensures final attachment and reliable contact on the busbars even without screw-fastened fuse inserts.

Benefits:

- Excellent contact reliability
- Optimum shock-hazard protection to BGV-A2 (VBG 4)



For clamping screw fastening

Type	Rated current	Rated operating voltage	For bar thickness	P. of	Model No. SV Bus-mounting fuse base	Model No. SV Contact hazard protection cover	Model No. SV End caps	Model No. SV Side cover
D 02-E 18	63 A	400 V~	3 – 10 mm	10	3418.000	3419.000	3420.000	3093.000
D II-E 27	25 A	500 V~	3 – 10 mm	10	3427.000	3428.000	3429.000	3093.000
D III-E 33	63 A	690 V~	3 – 10 mm	10	3433.000	3434.000	3435.000	3093.000

For snap-on mounting

Type	Rated current	Rated operating voltage	For bar thickness	P. of	Model No. SV Bus-mounting fuse base	Model No. SV Contact hazard protection cover	Model No. SV End caps	Model No. SV Side cover
D 02-E 18	63 A	400 V~	5 mm	10	3422.000	3424.000	3425.000	3093.000
D 02-E 18	63 A	400 V~	10 mm	10	3423.000	3424.000	3425.000	3093.000
D II-E 27	25 A	500 V~	5 mm	10	3520.000	3522.000	3429.000	3093.000
D II-E 27	25 A	500 V~	10 mm	10	3521.000	3522.000	3429.000	3093.000
D III-E 33	63 A	690 V~	5 mm	10	3530.000	3532.000	3435.000	3093.000
D III-E 33	63 A	690 V~	10 mm	10	3531.000	3532.000	3435.000	3093.000

NH bus-mounting on-load isolator (for 60 mm bar centre distance)

The NH bus-mounting on-load isolators, with and without fuse monitoring, form the ideal unit for compact, operationally safe equipment assembly on busbar systems with 60 mm bar centre distance and on Rittal PLS.

Apart from its protective function, the design of the isolator facilitates the activation and deactivation of electrical equipment and system components.

Benefits:

- Operationally safe, shock-hazard-protected equipment assembly
- Shielding of the supply contact system against the fuse chamber



Design	Cable outlet	Type of connection	Packs of	Model No. SV	with fuse monitoring	
					Model No. SV ¹⁾	Model No. SV ²⁾
Size 00, 160 A, 690 V~	top	Screw M8 up to 95 mm ²	1	3400.000	3490.000	3490.210
Size 00, 160 A, 690 V~	bottom	Screw M8 up to 95 mm ²	1	3401.000	3491.000	3491.210
Size 00, 160 A, 690 V~	top	Clamp-type terminal connection up to 70 mm ²	1	3402.000	3492.000	3492.210
Size 00, 160 A, 690 V~	bottom	Clamp-type terminal connection up to 70 mm ²	1	3403.000	3493.000	3493.210
Size 1, 250 A, 690 V~	top	Screw M10 up to 150 mm ²	1	3411.000	3495.000	3495.210
Size 1, 250 A, 690 V~	bottom	Screw M10 up to 150 mm ²	1	3410.000	3494.000	3494.210
Size 2, 400 A, 690 V~	top	Screw M10 up to 240 mm ²	1	3415.020	3415.120	3415.210
Size 2, 400 A, 690 V~	bottom	Screw M10 up to 240 mm ²	1	3415.030	3415.130	3415.230
Size 3, 630 A, 690 V~	top	Screw M10 up to 240 mm ²	1	3095.020	3095.120	3095.210
Size 3, 630 A, 690 V~	bottom	Screw M10 up to 240 mm ²	1	3095.030	3095.130	3095.230

¹⁾ Electromechanical fuse monitoring

²⁾ Electronic fuse monitoring and LED display

NH fused isolators (for 60 mm bar centre distance)

NH fused isolators are leading products in the NH switchgear sector when it comes to quality, technology and safety.

With a construction width of 50 mm, Rittal NH fused isolators set new standards in the compact, assembly space-saving configuration of NH fusegear on busbar systems with 60 mm bar centre distance and Rittal PLS.

Benefits:

- High switching values
- Reliable disconnection and off-load position



Design	Cable outlet	Type of connection	Packs of	Model No. SV
Size 00, 160 A, 690 V~	top	Screw M8	1	3591.020
Size 00, 160 A, 690 V~	bottom	Screw M8	1	3591.030

SV component adaptor (for 60 mm bar centre distance)

With modern, practical technology, Rittal component adaptors set new standards in the compact assembly and wiring of protective gear and switchgear.

SV component adaptors are suitable for direct top-mounting on electrical copper bars from 12 x 5 to 30 x 10 mm and Rittal PLS, with a bar centre distance of 60 mm.

Benefits:

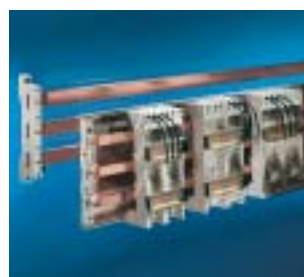
- Contact tracks are mounted with low heat loss and short circuit-resistance materials
- Quick fastening of protective gear and switchgear



Component adaptor

Construction width	Rated current max.	Rated operating voltage	Connection cables*	Support rails		For bar thickness	Model No. SV
				Height	Number		
54 mm	50 A	690 V ~	AWG 10	7.5 mm	1	5 mm	3540.000
54 mm	50 A	690 V ~	AWG 10	7.5 mm	1	10 mm	3541.000
54 mm	50 A	690 V ~	AWG 10	7.5 mm	2	5 mm	3040.000
54 mm	50 A	690 V ~	AWG 10	7.5 mm	2	10 mm	3041.000
54 mm	63 A	690 V ~	AWG 8	7.5 mm	1	5 mm	3036.000
54 mm	63 A	690 V ~	AWG 8	7.5 mm	1	10 mm	3037.000
72 mm	50 A	690 V ~	AWG 10	7.5 mm	1	5 mm	3544.000
72 mm	50 A	690 V ~	AWG 10	7.5 mm	1	10 mm	3545.000
72 mm	63 A	690 V ~	AWG 8	7.5 mm	2	5 mm	3038.000
72 mm	63 A	690 V ~	AWG 8	7.5 mm	2	10 mm	3039.000
72 mm	63 A	690 V ~	AWG 8	15.0 mm	2	5 mm	3046.000
72 mm	63 A	690 V ~	AWG 8	15.0 mm	2	10 mm	3047.000
72 mm	63 A	690 V ~	AWG 8	15.0 mm	1	5 mm	3067.000
72 mm	63 A	690 V ~	AWG 8	15.0 mm	1	10 mm	3068.000
108 mm	50 A	690 V ~	AWG 10	7.5 mm	2	5 mm	3042.000
108 mm	50 A	690 V ~	AWG 10	7.5 mm	2	10 mm	3043.000
126 mm	50 A	690 V ~	AWG 10	7.5 mm	2	5 mm	3069.000
126 mm	50 A	690 V ~	AWG 10	7.5 mm	2	10 mm	3070.000
144 mm	50 A	690 V ~	AWG 10	15.0 mm	2	5 mm	3044.000
144 mm	50 A	690 V ~	AWG 10	15.0 mm	2	10 mm	3045.000
144 mm	63 A	690 V ~	AWG 8	15.0 mm	2	5 mm	3048.000
144 mm	63 A	690 V ~	AWG 8	15.0 mm	2	10 mm	3049.000
90 mm	100 A	690 V ~	35 mm ²	Mounting plate		5 mm	9320.000
90 mm	100 A	690 V ~	35 mm ²	Mounting plate		10 mm	9320.010
110 mm	160 A	690 V ~	-	Mounting plate		5 - 10 mm	3539.000
110 mm	160 A	690 V ~	-	Mounting plate		5 - 10 mm	3438.000
110 mm	250 A	690 V ~	-	Mounting plate		5 - 10 mm	3437.000

Packs of 1



* AWG = American Wire Gauges
 AWG 10 = 5.26 mm² ± 6 mm²
 AWG 8 = 8.37 mm² ± 10 mm²

Multi-functional component adaptor

Construction width	Rated current max.	Rated operating voltage	Connection cables*	Connection of round conductors up to	Cable outlet	Support rails		For bar thickness	Model No. SV
						Height	Number		
45 mm	12 A	690 V ~	AWG 14	-	top	10 mm	1	5 mm	9320.160
45 mm	12 A	690 V ~	AWG 14	-	top	10 mm	1	10 mm	9320.170
45 mm	25 A	690 V ~	AWG 12	-	top	10 mm	1	5 mm	9320.180
45 mm	25 A	690 V ~	AWG 12	-	top	10 mm	1	10 mm	9320.190
45 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2	5 mm	9320.200
45 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2	10 mm	9320.210
45 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2 (1 var.)	5 mm	9320.220
45 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2 (1 var.)	10 mm	9320.230
45 mm	25 A	690 V ~	AWG 12	-	bottom	10 mm	2	5 mm	9320.240
45 mm	25 A	690 V ~	AWG 12	-	bottom	10 mm	2	10 mm	9320.250
45 mm	25 A	690 V ~	-	16 mm ²	top	10 mm	2 (1 var.)	5 mm	9320.260
45 mm	25 A	690 V ~	-	16 mm ²	top	10 mm	2 (1 var.)	10 mm	9320.270
45 mm	25 A	690 V ~	-	16 mm ²	top/ bottom	10 mm	2	5 mm	9320.280
45 mm	25 A	690 V ~	-	16 mm ²	top/ bottom	10 mm	2	10 mm	9320.290
45 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2	5 mm	9320.440
45 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2	10 mm	9320.450
54 mm	40 A	690 V ~	AWG 10	-	top	10 mm	2	5 mm	9320.300
54 mm	40 A	690 V ~	AWG 10	-	top	10 mm	2	10 mm	9320.310
54 mm	40 A	690 V ~	AWG 10	-	bottom	10 mm	2	5 mm	9320.320
54 mm	40 A	690 V ~	AWG 10	-	bottom	10 mm	2	10 mm	9320.330
54 mm	40 A	690 V ~	-	16 mm ²	top	10 mm	2	5 mm	9320.340
54 mm	40 A	690 V ~	-	16 mm ²	top	10 mm	2	10 mm	9320.350
54 mm	40 A	690 V ~	-	16 mm ²	top/ bottom	10 mm	2	5 mm	9320.360
54 mm	40 A	690 V ~	-	16 mm ²	top/ bottom	10 mm	2	10 mm	9320.370
54 mm	40 A	690 V ~	AWG 10	-	top	15 mm	1	5 mm	9320.460
54 mm	40 A	690 V ~	AWG 10	-	top	15 mm	1	10 mm	9320.470
90 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2	5 mm	9320.380
90 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2	10 mm	9320.390
99 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2	5 mm	9320.400
99 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2	10 mm	9320.410
108 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2	5 mm	9320.420
108 mm	25 A	690 V ~	AWG 12	-	top	10 mm	2	10 mm	9320.430

Packs of 1



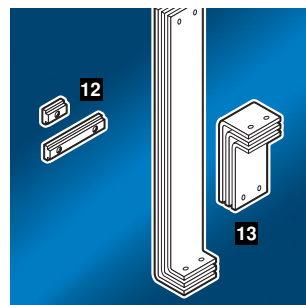
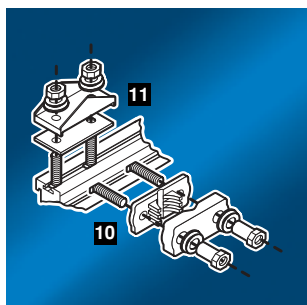
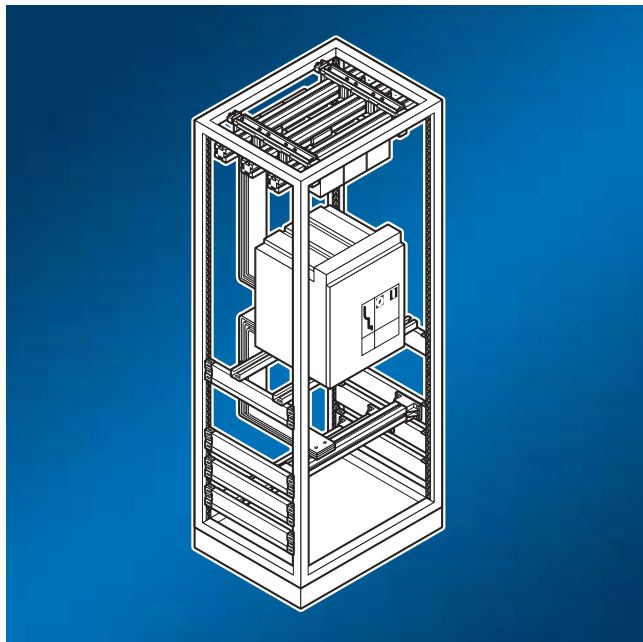
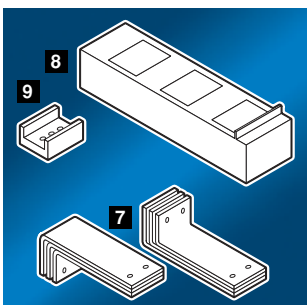
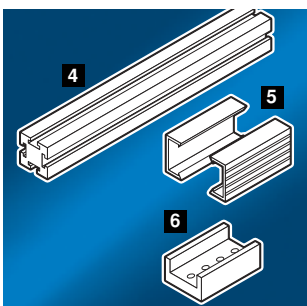
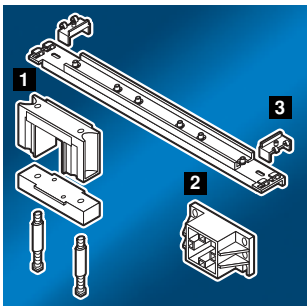
* AWG = American Wire Gauges
 AWG 14 = 2.08 mm² ± 2.5 mm²
 AWG 12 = 3.31 mm² ± 4 mm²
 AWG 10 = 5.26 mm² ± 6 mm²
 AWG 8 = 8.37 mm² ± 10 mm²

SV-TS 8 and Maxi-PLS (up to 2000 A/3200 A)

Thanks to the fully fitted enclosure frame and perfect system technology, Maxi-PLS supports and bars ensure a simple and fast installation.

Maxi-PLS busbars, in conjunction with the isolator chassis, the U contact maker and the connection brackets, form the heart of the modular system for connecting air circuit-breakers up to 3200 A with standard components.

- Benefits:**
- Fully prepared SV-TS 8 enclosures
 - Standardised Maxi-PLS busbars
 - System packages for all commercially available air circuit-breakers



- 1 Busbar support
- 2 End support
- 3 System attachment
- 4 Busbars E-Cu 57
- 5 Cover section
- 6 Longitudinal connector E-Cu 57
- 7 Connection bracket E-Cu 57
- 8 Isolator chassis
- 9 U contact maker E-Cu 57
- 10 Connection clamp
- 11 Connection plates
- 12 Sliding blocks
- 13 Air circuit breaker connection kit, top/bottom

ISV distribution enclosure

ISV distribution enclosures make an ideal addition to the Rittal Maxi-PLS modular system.

Bayable, preconfigured enclosures facilitate the direct accommodation of modules for all distribution and protection functions.

- Benefits:**
- Fully prepared ISV-TS 8 enclosures
 - Modular interior installation up to 630 A
 - Precise alignment of the modules in the ISV enclosure thanks to a sophisticated quick-assembly system



IT solutions . . .

. . . The perfect customer-specific solution

With emerging technologies, network technology places ever increasing demands on the infrastructure and hence on competent system suppliers.

Whether you are after a small corridor distributor for a fibre-optic network or a combined distribution and component enclosure, the Rittal range has the optimum, practical system solution to every problem, whatever the application.

- Monitoring systems
- Network enclosures
- Server enclosures
- Busbar system PSM
- Wall-mounted distributors
- Fibre-optic distributors
- Mobile workstations
- Distributor frames
- FM distributors
- Operator terminals ITS

Detailed information may be found in the IT Catalogue or on our website

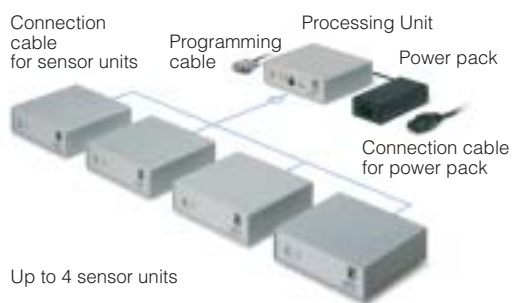
Computer Multi Control CMC

The CMC-TC system allows users to configure a monitoring application cost-effectively and in a targeted manner. The processing unit (PU) with network interface forms the basis.

The sensor units are combined with sensors to connect to the PU. This determines the function.

The PU may optionally be operated via the CMC-TC master to provide superior performance.

The package is rounded off by the plug & play concept with automatic sensor detection and configuration.



CMC-TC main products	Packs of	Model No. DK
CMC-TC master	1	7320.000
CMC-TC processing unit	1	7320.100
CMC-TC I/O unit	1	7320.210
CMC-TC access unit	1	7320.220
CMC-TC climate unit	1	7320.230
Extension unit 3 x voltage 100 – 230 V AC	1	7200.520
CMC-TC display unit	1	7320.490
CMC-TC GSM unit	1	7320.820

Sensor unit	I/O unit	Access unit	Climate unit	Packs of	Model No. DK
Sensors/actuators:					
Temperature sensor	•		•	1	7320.500
Humidity sensor	•			1	7320.510
Analog sensor input module "4 – 20 mA"	•			1	7320.520
Access sensor (max. 5 sensors may be connected in series)	•	•	•	2	7320.530
Vandalism sensor	•			1	7320.540
Airflow monitor	•		•	1	7320.550
Smoke alarm	•		•	1	7320.560
Motion sensor	•		•	1	7320.570
Digital input module	•	•	•	1	7320.580
Digital relay output module	•			1	7320.590
Voltage monitor 230 V AC, switchable	•		•	1	7320.610
Latch/reader:					
Electro-magnetic Ergoform-S FR/PS/TC and TE		•		1	7320.700
Electro-magnetic Ergoform-S QR		•		1	7320.710
Electro-magnetic TS 8 handle		•		1	7320.720
Universal latch		•		1	7320.730
Relay output module for room door		•		1	7320.740
Smart card reader		•		1	7320.750
Magnetic card reader		•		1	7320.760
Coded lock		•		1	7320.770
Connection accessories					
Connection cable 230 V with IEC 320 connector				1	7200.210 – .214
Programming cable for RS 232 RJ 11/D-Sub 9				1	7200.221
Cable for sensor units, RJ 45, length: 0.5/2/10 m				4/4/1	7200.470 / .472 / .481
Power pack 24 V, input 100 – 240 V AC or 48 V DC				1	7320.425 / .435
Interference suppression capacitors for fans				20	7200.490
Cable clamp strap for mounting on 1 U mounting unit				1	7610.000
Cable clamp straps for power pack installation				1	7611.000
Accessories for connection cable RJ 11/12				4	7200.420 / .430
Accessories for extension cable RJ 11/12				4	7200.440 / .450
1 U mounting unit for 3 units				1	7320.440
Individual mounting module for 1 unit				1	7320.450

DK network enclosures, based on Rittal TS 8

Fully pre-configured in six practical variants. Available and ready-to-use immediately.

Even complete bayed enclosure suites can be assembled in next to no time.

Benefits:

- Symmetrical layout
- More interior volume
- Plug and play attachment
- Metric and 482.6 mm (19") attachment levels



The principal features of the pre-configured network enclosures:

All: Base/plinth, earthing, central earthing point.

P1: 482.6 mm (19") mounting angles at the front, mounted 150 mm behind the glazed door, screw-fastened to TS punched section with mounting flange as depth stays.

P2: 482.6 mm (19") attachment front and rear, distance between levels 500 mm, cranked mounting angles

screw-fastened to corner brackets, doors vented.

P3: 482.6 mm (19") mounting angles front and rear, distance between levels 700 mm, L-shaped mounting angles, screw-fastened to depth stays.

P4: Empty enclosure for individual configuration, 482.6 mm (19")/metric or combined partial installation of mounting angles/ enclosure frames is possible.

P5: 482.6 mm (19") mounting angles front and rear, distance between levels 500 mm, L-shaped mounting angles screw-fastened to depth stays, roof plate with cutout for fan insert, covered with sealed vent panel.

P6: Large swing frame 40 U, sealed rear panel.

Network enclosures, pre-configured TS 8

Enclosure types	P1	P3	P2	P2	P3	P3	P4	P5	P6	P2	P3	P3
Model No. DK With side panels	7830.100	7830.120	7830.800	7830.200	7830.300	7830.330	7830.400	7830.500	7830.600	7830.220	7830.320	7830.340
Model No. DK Without side panels	–	–	7830.850	7830.250	7830.350	7830.335	–	7830.550	7830.650	7830.270	7830.370	7830.380
U	24	24	38	42	42	42	–	42	40	47	47	47
Width mm	600	800	800	800	800	800	800	800	800	800	800	800
Height mm	1200+100	1200+100	1800+100	2000+100	2000+100	2000+100	2000+100	2025+100	2000+100	2200+100	2200+100	2200+100
Depth mm	600	900	800	800	900	1000	800	800	800	800	900	1000



The principal features of the metric network enclosures:

All: Enclosure frame TS 8, Comfort handle at front, Rear door, Roof plate, Three-part gland plate, 6 punched sections with mounting flanges, 4 metric mounting angles (515 mm).

Type 1: Glazed door at front.
Type 2: Sheet steel door at front.

Network enclosures, metric

Type 1 Model No. DK	7831.200	7831.220
Type 2 Model No. DK	7831.210	7831.230
SU	76	84
Width mm	600	600
Height mm	2000	2200
Depth mm	600	600



The principal features of the standard network enclosures:

All: Enclosure frame TS 8, Rear door made from sheet steel, Roof plate, Divided base/gland plate, 2 TS punched sections with mounting flanges, Comfort handle front, no mounting angles.

Type 1: Glazed door at front.
Type 2: Sheet steel door at front.

Network enclosures, standard

Type 1 Model No. DK	7820.600	7820.610	7820.620	7820.650	7820.670	7820.700	7820.710	7820.740
Type 2 Model No. DK	7821.600	7821.610	7821.620	7821.650	7821.670	7821.700	7821.710	7821.740
U	38	38	38	38	38	42	42	42
Width mm	600	600	600	800	800	600	600	800
Height mm	1800	1800	1800	1800	1800	2000	2000	2000
Depth mm	600	800	900	800	1000	600	600	600
Type 1 Model No. DK	7820.750	7820.760	7820.770	7820.800	7820.810	7820.840	7820.850	7820.860
Type 2 Model No. DK	7821.750	7821.760	7821.770	7821.800	7821.810	7821.840	7821.850	7821.860
U	42	42	42	47	47	47	47	47
Width mm	800	800	800	600	600	800	800	800
Height mm	2000	2000	2000	2200	2200	2200	2200	2200
Depth mm	800	900	1000	600	800	600	800	900

Other heights: 800, 1000, 1200, 1400, 1600 mm available on request.

Rittal Top Efficiency, TE 7000

The new TE 7000 meets all the requirements of a modern network enclosure and offers excellent value for money.

It is based on a self-supporting 482.6 mm (19") mounting angle which also serves as the enclosure frame. All interior installation occurs inside this mounting angle, whilst the enclosure panels are attached to the outside.

The distance between the front and rear mounting angle may be conveniently selected between certain preset points, and individually determined using a slot attachment. Matching accessories allow direct, rapid installation in the delivered state.

Benefits:

- Maximum load capacity of up to 400 kg, static
- Enclosure may be dismantled
- Modular interior installation in the roof and base section
- No frame structure, optimum accessibility
- Maximum interior space for cable routing



Key equipment of TE 7000 network enclosures:

Screw-fastened enclosure structure that can be dismantled.
482.6 mm (19") mounting levels, front and rear.
Modular installation in the roof and base section.
Glazed door at the front, sheet steel door at the rear,

optional quick-fit side panels with security lock.
Door opening angle 130°.
Roof plate with integrated brush strip in the scope of supply,
fan unit ready for connection, including thermostat control, may optionally be retrofitted.

The enclosure system is bayable. A base/plinth may be fitted.

Network enclosures TE 7000

Model No. TE	7000.430	7000.440	7000.450	7000.460	7000.500	7000.510	7000.520	7000.530	7000.560	7000.570	7000.580	7000.590
Model No. TE as bayed enclosure without side panels	-	-	-	-	7000.502	-	-	7000.532	7000.562	-	-	7000.592
U	25	25	25	25	42	42	42	47	47	47	47	47
Width mm	600	600	800	800	600	600	800	800	600	600	800	800
Height mm	1200	1200	1200	1200	2000	2000	2000	2000	2200	2200	2200	2200
Depth mm	600	800	600	800	600	800	600	800	600	800	600	800

Rittal QuickRack

The QuickRack enclosure system is a highly cost-effective, assembly-friendly solution for numerous applications in the field of network technology and electronics.

The modular design facilitates individual configuration in line with the customer's requirements. The innovative quick-assembly system ensures maximum time

savings coupled with easy handling. Integration of active climate control is easily and conveniently achieved by fitting the fully wired fan trays.



The principal features of the pre-configured network enclosures:

P28: Rear panel for cable entry, 482.6 mm (19") mounting angles at the front, solid module plates, fitted in the roof and base frame.

P30: Rear door vented, with security lock and 130° hinges, solid roof plate.

P29, P31 – P34: Rear door with security lock and 130° hinges, roof frame with module plate

combination, earthing of the enclosure panels on the enclosure frame, base/plinth, 482.6 mm (19") mounting angles front and rear, extensive accessory kit, with and without side panels.

Pre-configured network enclosures

Enclosure types	P28 Under-desk enclosure	P29 Network enclosure	P30 Under-desk enclosure	P31 Large enclosure	P32 Large enclosure	P33 Large enclosure	P34 Large enclosure
Model No. QR	7528.250	7528.400	7528.200	7528.100	7528.110	7528.120	7528.130
U	11	24	11	42	42	42	42
SU	19	43	19	75	75	75	75
Width mm	600	800	600	800	800	800	800
Height mm	600	1200	600	2000	2000	2000	2000
Depth mm	600	800	800	800	800	800	800



The principal features of the QuickRack server enclosures:

Vent slots in the glazed door and punchings in the rear door, open roof and base frame for

configuration with module plates, base/plinth with castors and pull-out stabiliser,

482.6 mm (19") mounting angles front and rear.

QuickRack server enclosures

Model No. QR	7528.935	7528.900	7528.960	7528.970
U	23	41	23	41
Width mm	600	600	600	600
Height mm	1242	1992	1242	1992
Depth mm	900	900	1000	1000

Rittal flexRack(i)

The new rack generation flexRack(i) offers an incredibly broad spectrum of benefits:

- Innovative cable management facilities
 - Integrated systems for cooling water supply and power management in the frame section, with no loss of enclosure volume (cf. page 64)
 - Ideas for optimum use of the internal enclosure volume
 - Inspiration for a complete plug & play system tailored to customer requirements
- Whether in the office, computer centre, network sector or server room, the flexRack(i) is the ideal combination of design and function, aesthetics and ergonomics. That's the flexRack(i).



The principal features of the pre-configured network enclosures FR(i):

Designer glazed door and solid sheet steel rear door, with/without side panels, designer base/plinth vented with 42 U, roof plate (with cable entry for 42 U), gland plate (open at rear), 482.6 mm (19") mounting angles at the front (additional 482.6 mm (19") mounting angles at the rear with 42 U), earthing of all enclosure panels.

Network enclosures, pre-configured FR(i)

Model No. FR(i)	7855.500	7855.510	7855.540	7855.550	7855.560	7855.570
U	11	25	42	42	42	42
Width mm	600	600	800	800	800	800
Height mm	600	1200	2000 + 100	2000 + 100	2000 + 100	2000 + 100
Depth mm	1050	1050	850	850	1050	1050



The principal features of the pre-configured network server enclosures FR(i):

Designer door and sheet steel rear door, vented, without side panels, roof plate (with cable entry for 42 U), 482.6 mm (19") mounting angles front and rear, earthing of all enclosure panels.

Network enclosures, pre-configured FR(i)

Model No. FR(i)	7855.310	7855.330
U	24	42
Width mm	600	600
Height mm	1200	2000
Depth mm	1050	1050



The principal features of the electronic enclosures FR(i):

Designer glazed door and sheet steel rear door, solid, solid gland plates, without side panels, without 482.6 mm (19") mounting angles.

Electronic enclosures FR(i)

Model No. FR(i)	7855.610	7855.620	7855.630	7855.640	7855.650	7855.660	7855.670
U	11	11	24	24	38	42	42
Width mm	600	600	600	600	600	600	600
Height mm	600	600	1200	1200	1800	2000	2000
Depth mm	650	1050	650	1050	650	650	1050

Model No. FR(i)	7855.680	7855.690	7855.700	7855.710	7855.720	7855.730	7855.740
U	47	24	38	42	42	47	47
Width mm	600	800	800	800	800	800	800
Height mm	2200	1200	1800	2000	2000	2200	2200
Depth mm	1050	850	850	850	1050	850	1050

Power System Module

The ever-growing power requirements of modern IT structures demand refined solutions for power distribution inside the racks. This leads to an associated requirement for additional sockets. The new "intelligent power distribution system" from Rittal significantly reduces cabling and assembly work.

The modular system facilitates basic configuration of the racks, thanks to a vertical support rail with 3-phase infeed. The various insert modules to supply the active components may be snap-fitted into the support rail. This can even be done whilst the system is operational, because the support section is shock-hazard-

protected. The various modules, earthing pins, IEC320 etc. may be inserted into the support rail in any combination. This is easily achieved, even by non-electricians, thanks to the shock-hazard-protected plug & play system.



Busbar

Direct integration into the flexRack(i)

The busbar is supplied fully wired, without fuse, in two variants (infeed):

- EU: 5-pole with neutral conductor, 3 x 16 A
- US: 4-pole without neutral conductor

Model No. DK	7856.010	7856.020	7856.050*	7856.060*
Busbar	EU type	EU type	US type	US type
For enclosure height mm	1200	2000	1200	2000
Number of modules	4	7	4	7

* Delivery time on request.

Connection cable

3 m, fully wired ready for connection with adaptor and mains connector in two variants:

- EU: IEC 309 connector
- US: L15-30P Nema connector

Model No. DK	7856.025	7856.055*
Connection cable	EU type	US type

* Delivery time on request.

Plug-in modules

for busbar version EU and US. Length 250 mm.

Plug-in module	IEC 320	D/A	F/B	USA	UK	CH
Number of sockets	6	4	4	4	4	4
Without fuse	7856.080	7856.100	7856.120*	7856.140*	7856.160*	7856.190*
With fuse	7856.070	7856.090	7856.110*	7856.130	7856.150*	7856.180*

* Extended delivery times. Other modules available on request.

Monitor/keyboard unit, 1 U

This compact 1 U console was developed for secure, space-saving, on-site server administration.

To be able to access other servers, this monitor/keyboard unit is easily combined with the Rittal SSC.



1 U Monitor/keyboard drawer							
Design	TFT	Maximum resolution	Supply includes	Keyboard layout	Colour	Packs of	Model No. DK
Touchpad mouse + numeric keypad	17"	1280 x 1024 pixels	VGA, DVI, Sound	German	RAL 7035	1	7073.100
Touchpad mouse + numeric keypad	17"	1280 x 1024 pixels	VGA, DVI, Sound	English	RAL 7035	1	7073.110
Touchpad mouse + numeric keypad	17"	1280 x 1024 pixels	VGA, DVI, Sound	French	RAL 7035	1	7073.120*
Touchpad mouse + numeric keypad	15"	1024 x 768 pixels	VGA	German	RAL 7035	1	7063.975
Touchpad mouse + numeric keypad	15"	1024 x 768 pixels	VGA	German	RAL 9005	1	7063.980*
Touchpad mouse + numeric keypad	15"	1024 x 768 pixels	VGA	English	RAL 7035	1	7063.977*
Touchpad mouse + numeric keypad	15"	1024 x 768 pixels	VGA	English	RAL 9005	1	7063.987*
Touchpad mouse + numeric keypad	15"	1024 x 768 pixels	VGA	French	RAL 7035	1	7063.978*
Touchpad mouse + numeric keypad	15"	1024 x 768 pixels	VGA	French	RAL 9005	1	7063.988*
Trackball	15"	1024 x 768 pixels	VGA	German	RAL 7035	1	7063.971*
Trackball	15"	1024 x 768 pixels	VGA	international**	RAL 7035	1	7063.972*

* Extended delivery times

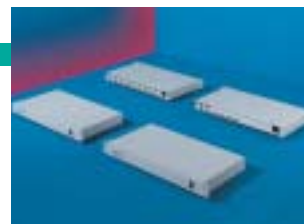
** International, please specify your keyboard layout	
US English with € symbol	Belgian
	French
UK English	Swiss
Swedish/Finnish	Italian
Norwegian	Spanish
Danish	Portuguese

Rittal Server Switch Control SSC

By using the Rittal SSC, the number of keyboards, monitors and mice required is reduced to just one. Computer access becomes easier, more effective and more cost-efficient. Space and human resources are used to optimum effect. The new generation of the Rittal SSC offers individual design scope as well as investment security for the future.

As the number of computers increases, the SSC easily grows with it by cascading. The basic variant, the SSCmini, offers 4 channels and an integral hotkey function. The SSCmulti, the multi-talented all-rounder, additionally has 4/8/16 channels, an OSD menu, auto scan, auto skip and multi-platform capabilities. In this way, various different

computer platforms can be connected without the need for converters. The multi-console feature supports a second, swapped-out Category 5 console on the SSCmulti.



Rittal Server Switch Control SSC	SSCmini 4	SSCmulti 4	SSCmulti 8	SSCmulti 16
Number of computers in stand-alone mode	4	4	8	16
Number of local operating consoles	1	1	1	1
Maximum video resolution (depending on distance) at 85 Hz	1600 x 1280	1600 x 1280	1600 x 1280	1600 x 1280
Bandwidth	250 MHz	250 MHz	250 MHz	250 MHz
Model No. DK	7551.000	7551.010	7551.020	7551.030

Accessories

CPU cable for video (HD15), PS/2 keyboard and PS/2 mouse ¹⁾ , 1 m	7551.110	7551.110	7551.110	7551.110
CPU cable for video (HD15), PS/2 keyboard and PS/2 mouse ¹⁾ , 2 m	7551.120	7551.120	7551.120	7551.120
CPU cable for video (HD15), PS/2 keyboard and PS/2 mouse ¹⁾ , 4 m	7551.140	7551.140	7551.140	7551.140
CPU cable for video (HD15), PS/2 keyboard and PS/2 mouse ¹⁾ , 6 m	7551.160	7551.160	7551.160	7551.160
CPU cable for video (HD15), PS/2 keyboard and PS/2 mouse ¹⁾ , 9 m	7551.190	7551.190	7551.190	7551.190

¹⁾ Adaptor for serial mouse and DIN 5 keyboard supplied loose.

DK wall-mounted distributor based on Rittal EL, 3-part

Whether used as a corridor distributor or for smaller-scale networks, these enclosures provide the ultimate in technology and aesthetics. The 473/373 mm deep version has a protection category of IP 55 to EN 60 529/10.91.

- Designer glazed door with safety glass or perforated plate.
- Centre part with all-round slots (front and rear) on a 25 mm pitch pattern, infinitely depth-variable 482.6 mm (19") mounting angles.
- Wall section with cable clamp rail or mounting plate, cable gland plate top and bottom.



Network enclosure, pre-configured

Model No. DK with glazed door	7709.735	7715.735	7721.735
Model No. DK with ventilated door	7709.835	7715.835	7721.835
U	9	15	21
Width mm	600	600	600
Height mm	478	746	1012
Depth mm	573	573	573

The additional features of the pre-configured network enclosures:

Earth rail with star earthing, one outlet filter on both the left and right, 4 wall mounting brackets.



Network enclosures, standard

Model No. DK	7706.135	7709.135	7712.135	7715.135	7718.135	7721.135
U	6	9	12	15	18	21
Width mm	600	600	600	600	600	600
Height mm	345	478	612	746	878	1012
Depth mm	473	473	473	473	473	473



Electronic enclosures

Model No. DK	Depth 373 mm	2243.605	2246.605	2249.605	2252.605	2255.605	2258.605	2261.605
	Depth 473 mm	2253.605	2256.605	2259.605	2262.605	2265.605	2268.605	2271.605
U		3	6	9	12	15	18	21
Width mm		600	600	600	600	600	600	600
Height mm		212	345	478	612	746	878	1012

Additional equipment: Mounting plate

DK wall-mounted distributors, based on Rittal AE

The wall-mounted distributor with infinitely depth-adjustable 482.6 mm (19") mounting angles is the ideal solution for small networks or corridor distributors. Structured cabling of the incoming and outgoing

cables is easily achieved, thanks to the gland plate with brushes in the enclosure base together with a C rail for cable clamping and cutouts on the sides next to the 482.6 mm (19") mounting angles. The

wall-mounted distributor with pull-out frame offers the opportunity of installing 482.6 mm (19") components horizontally and vertically, at the front or sides.

- Enclosure design proven a million times over
- Extensive range of system accessories



Model No. DK with mounting angles	7641.000	7643.000	7645.000
U	8	13	16
Width mm	600	600	600
Height mm	380	600	760
Depth mm	350	350	350



Model No. DK with pull-out frame	7644.000
U sides, vertical	4
U front	10
Width mm	600
Height mm	600
Depth mm	350

DK wall-mounted distributors, based on Rittal QuickBox

The new DK wall-mounted distributor Rittal QuickBox combines

- versatility with
- flexibility and
- efficiency.

As a wall-mounted distribution enclosure with depth-adjustable 482.6 mm (19") mounting angles, the QuickBox is the

ideal solution for practical accommodation of your network technology or corridor distributor. Metric configuration may optionally be achieved via accessories. Comprehensive size variants, with or without glazed door, for the most diverse applications offer cost-effective, customer-oriented

solutions. The Quick-Box is available fully pre-configured off-the-shelf. In every respect, the QuickBox is an ideal combination of the function and flexibility of Rittal enclosures that customers have come to rely on.

- Brush insert and cable clamp rail
- Security locks
- Easy, uninhibited access to all mounting points



3/6 U with additional 482.6 mm (19") level at the side, vertical

Model No. DK with front cover	7502.630	7502.660
U vertical	3	6
Width mm	600	600
Height mm	631	631
Depth mm	210	360



6/9/12 U

Model No. DK With glazed door	7502.013	7502.014	7502.016	7502.023	7502.024	7502.026	7502.034	7502.035	7502.036
Model No. DK With sheet steel door	7502.113	7502.114	7502.116	7502.123	7502.124	7502.126	7502.134	-	7502.136
U/SU	6/10	6/10	6/10	9/15	9/15	9/15	12/20	12/20	12/20
Width mm	600	600	600	600	600	600	600	600	600
Height mm	362	362	362	495	495	495	628	628	628
Depth mm	300	400	600	300	400	600	400	500	600

15/18/21 U

Model No. DK With glazed door	7502.044	7502.045	7502.046	7502.054	7502.055	7502.056	7502.064	7502.066
Model No. DK With sheet steel door	7502.144	-	7502.146	7502.154	-	7502.156	7502.164	7502.166
U/SU	15/26	15/26	15/26	18/31	18/31	18/31	21/36	21/36
Width mm	600	600	600	600	600	600	600	600
Height mm	762	762	762	895	895	895	1028	1028
Depth mm	400	500	600	400	500	600	400	600

RNC universal enclosure

This versatile enclosure meets even the most discerning requirements in terms of function, design and handling. A contemporary design in black, with compact dimensions and a glazed door with tinted safety glass. Central locking with just

one lock, the side panels cannot be removed whilst the front door is latched. The enclosure may be used both as a stand-alone model and for wall mounting. The plug-in, easily removed side panels ensure rapid access and plenty of

scope when mounting. Optionally 1/2 19", 10" and 19"-components may be installed. Expansion of the system both horizontally and vertically is easily achieved by simple baying using the connector kit supplied loose.



RNC universal enclosure

Model No. DK	7870.350
U 1/2 19"	10
U 19"	5
Width mm	350
Height mm	500
Depth mm	350

RNC enclosure

Rittal-Net.com is the passive platform for the fast, future-safe assembly of communications networks in the small office sector.

Four designer enclosures are tailored to the particular criteria of the SOHO market. Work groups of between 2 and 48 users can be set up quickly and easily.

As an integrative service, complete passive systems are pre-assembled, tailored to segmented user groups. If the network expands, the enclosures easily grow with it, ensuring

that your investments are secure for the future.



RNC enclosure

Model No. DK	7870.100	7870.200	7870.300	7870.400*
Empty enclosures, individual				
Model No. DK Complete enclosures, individual ¹⁾	7870.110*	7870.210*	7870.310*	7870.410*
U	4	8	6	12
Width mm	342	342	342	560
Height mm	215	394	499	564
Depth mm	285	285	400	580
Number of workstations up to	4	8	12	24 (48)
Design	Modular 42 HP (1/2 19")	Modular 42 HP (1/2 19")	LSA 84 HP (19")	LSA 84 HP (19")
Installation position	horizontal	horizontal	vertical	horizontal

¹⁾ Including Cat. 5 distributor panel and RJ 45 patch cables, supplied loose.
* Delivery time on request.

Fibre-optic distributor

DK small fibre-optic distributors and DK fibre-optic marshalling enclosures will impress you with their design, tailored to a variety of practical

applications. Perfect cable entry, fast population and wiring, coupled with a high level of security thanks to various lock concepts, are

superbly achieved. An extensive range of system accessories, such as patch panels, lock components and wall mounting brackets add the

finishing touches to these enclosures.



DK small fibre-optic distributors, polycarbonate

- High protection category IP 66
- Splicing cassette accommodation from 92 – 120 mm width
- Patch panel with up to 24 locations for fibre-optic couplings.

Model No. DK	7451.000
No. of fibres	1 – 24
Width mm	180
Height mm	254
Depth mm	90



DK fibre-optic marshalling enclosures

- Two locks for separate access
- Accessories: Patch panel for fibre-optic cables

Model No. DK	7247.000
No. of fibres	1 – 24
Width mm	400
Height mm	250
Depth mm	120



DK Small fibre-optic distributors, based on Rittal AE

- Mounting plate and splicing cassette fixtures
- For up to 4 splicing cassettes
- Choose from 4 patch panel types

Model No. DK	7454.000
No. of fibres	1 – 48
Width mm	400
Height mm	500
Depth mm	155



DK Small fibre-optic distributors

- Cable clamp comb strips
- Cover with cam locks
- Including shunting rings and splicing cassette holders.
- Choose from 6 patch panel types

Model No. DK	7452.035	7453.035
No. of fibres	1 – 48	1 – 96
Width mm	500	500
Height mm	500	900
Depth mm	120	120



DK Office wall-mounted distributor, 2 and 4 U, for fibre-optic and copper technology

- Space-saving thanks to slimline design
- May be populated with patch panels and/or active components
- Plenty of space for cable routing

Model No. DK	7245.000	7245.400
U	2	4
Width mm	400	400
Height mm	504	504
Depth mm	106	195

Mobile workstation RiLab



Equipment:

Type 1: Base frame, RAL 7035/ RAL 5018 (decorative parts) with two integral power pillars, support pillars with vertical threaded inserts M6, shelf with rod handle 600 x 490 mm, one shelf 600 x 490 mm, 4 twin castors 100 mm dia. (2 of them lockable).

Type 2 + 3: like type 1, but with two shelves 600 x 490 mm.

RiLab mobile workstation	Type 1	Type 2	Type 3
Model No. DK	7600.100	7600.200	7600.300
Width mm	714	714	714
Height mm	820	1108	1428
Depth mm	625	625	625



Rittal Data Rack



- Twin castors for convenient location changes
- High load-bearing frame with mounting holes to suit every application

Model No. DK	7391.000	7396.000	7400.000	7445.000
U	31	36	40	45
Width mm	550	550	550	550
Height mm	1499.5	1721.8	1899.5	2121.8
Depth mm	750	750	750	750



Rittal TC-Rack



- ETSI standard ETS 300 119-3
- Torsionally stiff aluminium sections
- For 482.6 mm (19") and/or 535 mm installed equipment.

Model No. DK	7723.035	7726.035
U	46	46
SU	82	82
Width mm	600	600
Height mm	2200	2200
Depth mm	300	600

RiPatch – The versatile distributor frame



- Plug & play compatibility system makes retrospective installation easier
- High packing density for large volumes of cables
- Flexible cable routing whilst adhering to bend radii
- Free-standing, but also suitable for baying.

Model No. DK	7925.010
U	42
Width mm	600
Height mm	2072.5
Depth mm	450

FM distributor

The interior installation of FM distribution enclosures and FM wall-mounted distributors can be individually compiled

according to specific user requirements. There is a choice of three mounting systems covering various connection

techniques. The mounting systems may be combined with FM cable shunting strips.



FM distribution enclosures, based on Rittal TS 8

- Protection category IP 55
- Punched rails to accommodate FM system towers, system strips, system rods and cable routing strips

Model No. DK	7834.060	7834.080	7834.120
FM systems	2	3	5
Width mm	600	800	1200
Height mm	2000	2000	2000
Depth mm	400	400	400



FM wall-mounted distributors, based on Rittal AE

- Protection category IP 55
- Punched rails to accommodate FM system towers, system strips, system rods and cable routing strips

Model No. DK	7011.535	7012.535	7013.535	7014.535
FM systems	2	2	3	3
Width mm	600	760	800	800
Height mm	600	760	1000	1200
Depth mm	350	300	300	300



Small FM distributors

Small FM distributors as corridor distributors and intermediate distributors are suitable for the accommodation of LSA connection and distributor systems.

- Shunting rings for routing telecommunications cables
- Strain relief via comb rails
- Wall section for LSA cable retainers or mounting troughs

The two-part enclosure offers optimum access when installing your telecommunications wiring.

Model No. DK	7052.035	7053.035	7054.035	7055.035
Paired wires	100	200	400	800
Width mm	300	500	500	900
Height mm	500	500	700	700
Depth mm	120	120	120	120

Interactive Terminal Systems

ITS Opti-Desk

The Opti-Desk was designed as a stylish stand-up PC workstation for the office environment and for use in the administrative sector. The generous worktop offers plenty of work space, and its successful design blends harmoniously into any environment where effective advice, information and presentations are needed. Customers can choose between two different design variants which differ according to the styling of the front door and the added design elements. The PC keyboard is set flush into the MDF worktop in a space-saving design; the worktop is likewise available in two variants.

The PC hardware is housed in the lockable bottom cupboard, where other equipment such as printers, scanners etc. may also be integrated on additional built-in component shelves. The TFT display is housed in a slimline enclosure, together with the speakers.



Design version A



Design version B

ITS Opti-Desk		
TFT display	15"	17"
Dimensions with worktop approximately (W x H x D mm)	1000 x 1500 x 800	1000 x 1500 x 800
Dimensions of bottom cupboard with front door only approximately (W x H x D mm)	435 x 1000 x 530	435 x 1000 x 530
Model No. ITS design variant A (Door and worktop curved inwards, door with horizontal design elements)	9021.250	9021.270
Model No. ITS design variant B (Door and worktop curved outwards)	9021.255	9021.275

Accessories available on request.

ITS Opti-Wall

Compact terminal for wall mounting, based on the successful Opti-Line design. This wall-mounted terminal system, designed for representative indoor applications, is sure to impress, not only with its refined design, but also because of what's inside.

There is a choice of two PC systems, specifically tailored to the intended application in terminal systems. For example, the "Silent" PC system ensures a pleasant calm, because the power pack fans normally used in other systems are not required.



ITS Opti-Wall				
TFT display	15"	15"	17"	17"
Contact sensor (touchscreen) including controller	●	–	●	–
Keyboard support for the insertion of ITS keyboards	–	●	–	●
Enclosure dimensions approximately (W x H x D mm)	500 x 950 x 200	500 x 950 x 350	500 x 950 x 200	500 x 950 x 350
Model No. ITS	9020.150	9020.250	9020.170	9020.270

Accessories available on request.

ITS Opti-Line II

The Opti-Line II creates fresh visions with a tactile appeal. Stainless steel and aluminium, simplicity and elegance, function and aesthetics – timeless attributes for successful communication. This is stylish packaging at its most attractive. A keyboard support with new lines, more modularity and a consistent design.

A successful innovation from the legendary Opti-Line generation. This is a modular system that meets all requirements, combining flexible selection options with keyboard variants and PC systems depending on the intended application.

Optional accessories such as a printer, webcam and coin checker transform this terminal into a veritable multimedia event.



ITS Opti-Line II				
TFT display	15"	15"	17"	17"
Contact sensor (touchscreen) including controller	●	–	●	–
Keyboard support for the insertion of ITS keyboards	–	●	–	●
Dimensions of terminal enclosure approximately (W x H x D mm)	560 x 1500 x 520	560 x 1500 x 560	560 x 1500 x 520	560 x 1500 x 560
Model No. ITS	9006.505	9006.605	9006.705	9006.805

ITS Out-Line Pro

This ITS outdoor terminal system was designed for multimedia in an outdoor setting. Based on Rittal's expertise in the outdoor sector, this twin-walled aluminium terminal offers a high level of protection in terms of protection from a wide range of climatic and physical conditions, including protection against vandalism.

In spite of these tough requirements, the designers have created a stylish terminal system which blends harmoniously into its surroundings. The curved form of the roof structure, which as well as being visually appealing also provides protection from the elements for both the terminal and its users and contributes to the open, inviting design.

Inside, the enclosure may be configured with other components from the Rittal range of accessories, such as component shelves etc. Special displays suitable for outdoor use with high levels of light intensity are used in complete systems. At the customer's request, other installed equipment such as smartcard and magnetic card readers, special thermo-transfer printers and motion sensors for specialist applications may also be integrated.



ITS Out-Line Pro				
TFT display (suitable for outdoor use with an increased light intensity)	15"	15"	17"	17"
Contact sensor (touchscreen) including controller	●	–	●	–
Keyboard support for the insertion of ITS keyboards	–	●	–	●
Dimensions of terminal enclosure approximately (W x H x D mm)	650 x 2000 x 450	650 x 2000 x 550	650 x 2000 x 450	650 x 2000 x 550
Dimensions of terminal including roof approximately (W x H x D mm)	1000 x 2400 x 1000	1000 x 2400 x 1000	1000 x 2400 x 1000	1000 x 2400 x 1000
Model No. ITS	9022.150	9022.250	9022.170	9022.270

Accessories available on request.

Communication Systems . . .

. . . Perfect protection, whatever the weather

Rittal's expertise in the fields of enclosure technology, climate control, security management and system integration is combined in standard solutions and customised outdoor systems. The specific requirements of mobile communications, IT technology, environmental technology and power distribution are implemented on a project-specific basis.

High-quality materials such as aluminium, aluminium zinc plate and stainless steel combine corrosion resistance and protection from vandalism with UV stability and a high level of RF attenuation.

Individual complete solutions via the use of mass-produced modules

- Toptec
- Outdoor wall-mounted enclosures
- Outdoor compact enclosures
- Outdoor basic enclosures
- Outdoor modular enclosures
- Indoor Racks
- Containers
- Outdoor climate control

Detailed information can be found in the brochure "CS Outdoor Solutions" or on our website

CS Toptec

Standard enclosures

- 8 types
- Twin-walled doors and walls constructed externally
- Aluminium (AlMg3)
- Pre-configured with integral climate control solution

Individual

- Size variants
- Baying variants
- Customised solutions – Level 4 system integration



	Without climate control module				With heat exchanger CS 9776.100		With cooling unit CS 9776.500	
Model No. CS	9774.100	9774.200	9774.300	9774.400	9774.210	9774.410	9774.250	9774.450
Width mm	650	800	650	800	800	800	800	800
Height mm	1200	1200	1600	1600	1200	1600	1200	1600
Depth mm	650	650	650	650	650	650	650	650

CS wall-mounted enclosures

Standard enclosures

- 4 types
- Twin-walled concept (an enclosure within an enclosure)
- Aluminium (AlMg3)
- Door and designer cover with security lock

Individual

- 19" rotating frame, fitted
- System integration up to Level 4



Model No. CS	9791.015	9791.025	9791.035	9791.045
Width mm external/internal	370/300	420/350	530/460	630/580
Height mm external/internal	522.5/400	560.5/440	700/565	780/580
Depth mm external/internal	210/170	210/170	265/220	380/333

CS compact enclosures

Standard enclosures

- 4 types
- Single-walled
- Aluminium (AlMg3)/hot galvanised sheet steel
- 3-point fastener with security lock

Individual

- Shielding of the twin-door enclosure
- Lock concepts for shielded areas
- Roof-mounted heat exchanger for 1100 mm wide enclosures



Material	Aluminium AlMg3		Sheet steel, hot-galvanised	
Model No. CS	9771.115	9772.115	9771.111	9772.111
Enclosures	single-door	double-door	single-door	double-door
Width mm	800	1100	800	1100
Height mm	1100	1100	1100	1100
Depth mm	320	320	320	320

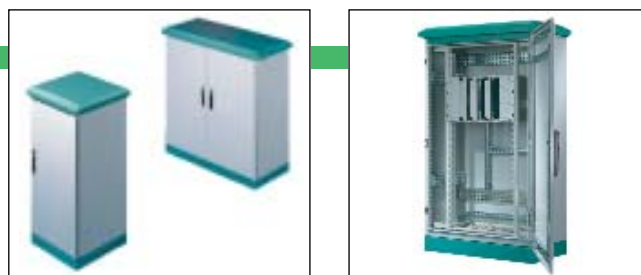
CS basic enclosures

Standard enclosures

- 16 types
- Single-walled
- Aluminium (AlMg3)
- 3-point fastener with security lock

Individual

- Installation service with system accessories
- Size variants
- Colour variants



Model No. CS without centre bar	9783.040	9783.050	9783.060	9783.030	9783.010	9783.020	9783.120	9783.110	9784.110*	9784.120	9784.140	9784.130
Model No. CS with centre bar	-	-	-	-	-	-	-	-	9784.010*	9784.020	9784.040	9784.030
Width mm	600	600	600	600	800	800	800	800	1200	1200	1200	1200
Height mm	800	1200	1400	1200	800	1200	1400	1200	800	1200	1200	1400
Depth mm	400	400	400	500	400	400	400	500	400	400	500	400

* Extended delivery times

CS modular enclosures

Standard enclosures

- 4 types, pre-configured
- Twin-walled
- Aluminium (AlMg3)
- 3-point fastener with security lock

Individual

- Installation service from the modular range with 12 frame sizes
- Climate control equipment (cooling units and air/air heat exchangers)
- Customised solutions – size variants, baying variants, Level 4 system integration



Model No. CS	9751.125	9751.145	9751.165	9752.125
Width mm	600	800	800	1200
Height mm	1200	1200	1600	1200
Depth mm	600	500	600	600

Other modules and size variants may be found in our brochure "CS Outdoor Solutions".

CS Indoor Racks

A new, particularly practical and cost-effective enclosure solution. Universal use of 482.6 mm (19") installed equipment to DIN 41 494 and IEC 297, plus metric installed equipment to IEC 907.

Available on request with sheet steel door and rear panel. Spray finished in RAL 7035. May be fitted with Rittal system accessories, such as mounting angles, slide rails, cable clamp rails, component shelves, socket strips and lights.

- Benefits:**
- For 482.6 mm (19") and 535 mm installed equipment
 - ETSI standard pr ETS 300 119-3



Model No. CS	9790.043	9790.042
Mounting angles	Metric	19"
Width mm	600	600
Height mm	2200	2200
Depth mm	300	300

CS Container

Standard design

- 3 standard dimensions
- Suspended structure consisting of sandwich panels, screw-fastened via corner sections
- Freely positionable cable entry
- Load-bearing capacity of base 7 kN/m²

Individual

- Fully customised interior installation
- Climate control solutions
- Size variants
- Fire protection and EMC protection



Model No. CS	9798.100	9798.150	9798.200
Interior dimensions (mm)	Type 1	Type 2	Type 3
Length mm	2600	3300	5000
Width mm	2100	2100	2100
Height mm	2400	2400	2400

CS Outdoor cooling units

The Outdoor cooling units may cool the enclosure interior temperature to below the level of the ambient temperature. The cooling units may be used up to an ambient temperature of 55°C, and needless to say, use the environmentally friendly CFC-free coolant R134a. The climate control covers for roof-mounted cooling units and covers for wall-mounted cooling units are tailored to the Outdoor modular enclosure.

The microcontroller for intelligent climate management reliably monitors the cooling unit and heat exchanger.

- Benefits:**
- Output from 900 W to 2500 W
 - Microcontroller for climate management
 - Roof-mounted, wall-mounted and door-mounted cooling units.



Model No. CS	9762.012	9768.100	9761.012	9761.032	9761.042	9768.100	
Mounting position	Roof mounting	Door mounting		Wall mounting		Universal built-in	
Width mm	535	430	515	695	776	400	
Height mm	390	1070	1170	1132	1100	1050	
Depth mm	400	210	151.5	151.5	250	310	
Useful cooling output EN 814	L35 L35 L35 L50	900 W 750 W	900 W 650 W	900 W 750 W	1400 W 1050 W	2500 W 2000 W	1500 W 1250 W
Rated operating voltage	230 V AC, 50/60 Hz						

CS Outdoor rack-mounted fans

CS rack-mounted fans support the internal air circuit, ensure the even distribution of heat, and help to prevent the formation of hot spots.

Benefits:

- Low-noise axial fans
- Controllable fan speed
- Installation on metric or 482.6 mm (19") mounting angles



Model No. CS	9769.002
Installation	19" mounting angles
Width mm	482.6 mm (19")
Height mm	44 (1 U)
Depth mm	200
Air throughput, unimpeded air flow	250 m³/h
Rated operating voltage	36 V DC to 72 V DC
Rated current max.	0.28 A

Rack-mounted fan for metric mounting angles available on request.

CS Outdoor heat exchangers

The air/air heat exchangers utilise the ambient air to dissipate heat arising inside the enclosure. Thanks to two completely separate air circuits, neither dust nor aggressive ambient air is able to enter the enclosure interior. Modern production technology, highly conductive materials and a

sophisticated air routing system guarantee optimum efficiency and hence energy-saving operation.

In order to avoid the formation of condensation, a number of heat exchangers are pre-equipped with a powerful heater.

Benefits:

- Output from 15 W/K to 135 W/K
- Microcontroller for climate management
- Roof-mounted, wall-mounted and door-mounted heat exchangers



Model No. CS	9764.040	9764.012	9764.022	9768.072	9763.012	9763.032	9763.082
Mounting position	Roof mounting			Universal built-in	Wall mounting		
Width mm	470	535	635	540	515	780	630
Height mm	158	390	390	1075	1170	1170	910
Depth mm	380	400	500	215	151.5	160	370
Specific thermal output	30 W/K	60 W/K	85 W/K	75 W/K	60 W/K	90 W/K	175 W/K
Heater	without	400 W	400 W	800 W	400 W	400 W	400 W
Rated operating voltage	48 V DC	48 V DC (fan) 230 V AC, 50/60 Hz (heater)					

Model No. CS	9768.032	9768.012	9768.042	9768.052	9768.062	9767.012
Mounting position	Door mounting					Roof-mounted*
Width mm	480	510	445	635	575	855
Height mm	1005	1005	1050	1206	1050	95
Depth mm	110	150	150	201	195	240
Specific thermal output	40 W/K	60 W/K	85 W/K	130 W/K	120 W/K	15 W/K
Heater	400 W	400 W	without	400 W	without	without
Rated operating voltage	48 V DC (fan) 230 V AC, 50/60 Hz (heater)		48 V DC	48 V DC (fan) 230 V AC, 50/60 Hz (heater)	48 V DC	

* for compact enclosures

CS Outdoor heaters

CS Outdoor thermal components prevent the formation of condensation inside the enclosure and keep the internal temperature at a constant level in cold climatic zones.

Benefits:

- Output from 600 W to 1000 W
- Controllable via a thermostat
- Installation in the enclosure base, on mounting plates or on cross rails



Model No. CS	9769.015	9769.023
Mounting position	in the enclosure	on 19" cross rails
Width mm	325	482.6 (19")
Height mm	85	87.2 (2 U)
Depth mm	225	236
Thermal output	1000 W	600 W
Rated operating voltage	230 V AC, 50/60 Hz	

Rittal system accessories

... for even more solutions

Solution diversity is our business. Thanks to many years of expertise, knowledge and our close contact with customers, we produce solutions that work. Infinite possibilities, thanks to the extensive range of Rittal accessories.

It is not only versatile, but also economical, thanks to cost-effective mass production and a quick assembly concept.

Base/plinth



- Base/plinth components
- Base/plinth baying brackets
- Transport castors
- Filter mat for base/plinth component, vented
- Base/plinth made entirely from stainless steel
- Perforated plate
- Base assembly plate
- Assembly bolts for cable clamp rails
- Levelling feet

Base



- Levelling feet
- Twin castors
- Cable entry plates
- Cable entry grommets
- Connector grommets
- EMC cable entry gland
- EMC cable glands
- Gland plates
- Width divider
- Cable clamp rails (right angle section) and clamps
- Support rails
- Base assembly bracket
- Condensate discharge
- Transport kit
- One-piece gland plate
- Filter mat for gland plate
- Gland plate modules

Walls



- Side panels
- Hinge for side panel
- Padlock for side panel, plug-in
- Internal latch for side panel, plug-in
- Punched sections with mounting flanges
- Divider panels
- Module plates
- Adaptor for connector cutouts
- Cover plate for connector cutouts
- Cable gland for connector cutouts (24-/64-pole)
- Cover with door

Baying system



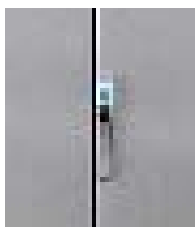
- Angular baying brackets
- Baying brackets
- Combination angle
- Quick-fit baying clamps
- Baying clamp, horizontal
- Baying clamp, vertical
- Baying connector, external
- Baying attachment
- Baying cover, top
- Compensating panel
- Corner enclosures

Door



- Glazed door
- Handle adaptor, glazed door
- Sheet steel door
- Profile blanking frame
- Trim panels
- Cross member
- Partial doors
- Drawer
- System windows
- Viewing window
- Operating panels
- Plastic handle
- Folding keyboard
- Door cutout trim
- Mounting bars
- Mounting bracket, mounting plates
- Utility lectern
- Wiring plan lectern
- Wiring plan pockets
- Door stay

Lock systems



- Comfort handle for lock inserts and padlock
- Lock inserts
- Lock and push-button inserts
- Comfort handle for semi-cylinder
- Ergoform handle
- Plastic handles
- T handles
- Lock cover
- Multiple lock
- Security lock
- Latch for bayed suites
- 130°/180° hinges
- Hinge pin remover

Everything matches, everything fits individual requirements can be achieved quickly and easily with the modular system. Tailored to the individual system platforms, each solution is ideally prepared for the respective application.

Detailed information on EMC-shielded enclosures and enclosures for use in explosion-hazard atmospheres may be found in our specialist brochures or on the Internet at www.rittal.co.uk

Roof/wall attachment



- Rain canopies
- Top module
- Baying cover
- Dust guard trim
- Eyebolts
- Roof plate for cable entry
- Cable management roof plate
- Fan mounting plate
- Fan expansion kit
- Fan roof
- Roof plate for cooling unit
- Pole clamp
- Wall mounting brackets

Interior installation



- Cable trunking for TS
- Mounting plates
- Mounting plate infill
- Cross-brace for mounting plates
- Mounting plate attachment
- Partial mounting plates
- EMC earth clamps
- Screws
- Rail systems
- Adaptor rails
- Mounting plates
- Mounting bracket
- Angle bracket
- C rails
- Cable clamps
- U nuts
- Captive nuts/threaded blocks
- Support rails
- Mounting clip
- Cable retainer
- Adaptor bracket
- Adaptor rail for wiring systems

Signal pillars



- Connection component
- Optical components
- Lamps for steady and flashing light components
- Acoustic components
- Mounting components
- Label panel

Mouse, mousepad IP 67



- Mouse, mousepad IP 67
- Connector gland
- Mousepad support for desk section
- Mousepad support for VIP 6000
- Mouse holder
- Mousepad, passive

Power supply



- Socket strips in an aluminium duct
- Socket strips, plastic
- Junction box with multi-functional bracket
- Energy-Box, 482.6 mm (19")
- PSM busbars

Earthing/potential equalisation



- Earth rails (potential equalisation rail)
- Central earthing point
- Earthing kit
- Earth straps

19" installation system



- Pull-out frame and divider kits
- Swing frame and divider kits
- Mounting angles
- Adaptor, metric/482.6 mm (19")
- Infill panels
- Cover sections
- Slide rails
- Server rails
- Component shelves
- Drawers and divider kits
- Keyboard drawers
- Blanking panel
- Blanking plates

DK accessories



- Patch panels
- Marshalling panel
- Cable shunting ring
- Cable clamp rails
- Cable management duct
- Fibre-optic splicing distributor
- Panel for cable routing
- Support unit for LSA-Plus strips
- LSA installation kit

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1005.600	9	1380.680	9	1556.600	8	2641.200	16	3050.000	55
1006.600	9	1400.600	10	1557.600	8	2642.600	15	3064.000	55
1007.600	9	1423.600	10	1577.600	8	2642.600	16	3067.000	58
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1024.030	7	1479.600	10	2249.605	65	2649.600	15	3105.000	51
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1030.680	9	1501.210	7	2255.605	65	2650.600	17	3115.000	51
1031.600	8	1502.210	7	2256.605	65	2651.200	15	3116.000	51
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1338.600	8	1540.210	7	2613.200	16	3036.000	58	3273.515	45
1338.680	9	1541.210	7	2614.600	15	3037.000	58	3278.134	50
1339.600	8	1542.210	7	2614.600	16	3038.000	58	3292.134	50
1339.650	9	1545.600	8	2615.200	15	3039.000	58	3302.100	43
1339.680	9	1546.600	8	2615.200	16	3040.000	58	3302.110	43
1350.600	8	1547.600	8	2616.200	15	3041.000	58	3302.200	43
1350.650	9	1548.600	8	2616.200	16	3042.000	58	3302.210	43
1350.680	9	1549.600	8	2620.600	15	3043.000	58	3303.100	43
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1360.650	9	1551.600	8	2630.600	15	3045.000	58	3303.110	43
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3304.110	43	3307.550	42	3322.048	48	3331.216	41	3382.110	44
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3304.514	44	3307.880	41	3323.615	49	3334.600	46	3383.200	45
3304.540	43	3307.890	41	3324.024	48	3335.060	47	3383.210	45
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3304.600	43	3308.540	41	3324.100	48	3335.100	47	3383.500	44
3304.610	43	3308.580	41	3324.115	48	3335.120	47	3383.510	44
3304.640	43	3308.590	41	3324.600	49	3335.150	47	3383.540	44
3305.100	43	3308.800	41	3324.615	49	3335.200	47	3383.600	45
3305.104	44	3308.840	41	3325.024	48	3335.250	47	3383.610	45
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3305.544	44	3309.520	42	3327.600	49	3337.200	47	3384.640	45
3305.600	43	3309.530	42	3327.615	49	3337.300	47	3385.100	44
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3306.230	42	3309.590	41	3328.114	44	3337.700	47	3385.210	45
3306.250	42	3309.610	42	3328.140	43	3337.710	47	3385.240	45
3306.270	42	3309.620	42	3328.144	44	3337.720	47	3385.500	44
3306.410	42	3309.640	42	3328.200	43	3337.730	47	3385.510	44
3306.430	42	3309.670	42	3328.210	43	3337.740	47	3385.540	44
3306.450	42	3309.800	41	3328.240	43	3337.750	47	3385.600	45
3306.470	42	3309.840	41	3328.500	43	3339.100	48	3385.610	45
3306.500	41	3309.880	41	3328.504	44	3339.200	48	3385.640	45
3306.510	42	3309.884	41	3328.510	43	3339.300	48	3386.140	44
3306.530	42	3310.130	42	3328.514	44	3339.400	48	3386.240	45
3306.540	41	3310.150	42	3328.540	43	3339.500	48	3386.540	44
3306.550	42	3310.230	42	3328.544	44	3340.024	50	3386.640	45
3306.570	42	3310.250	42	3328.600	43	3340.115	50	3387.140	44
3306.580	41	3310.500	41	3328.610	43	3340.230	50	3387.240	45
3306.590	41	3310.530	42	3328.640	43	3341.024	50	3387.540	44
3306.610	42	3310.550	42	3329.100	43	3341.115	50	3387.640	45
3306.630	42	3310.580	41	3329.104	44	3341.230	50	3400.000	57
3306.650	42	3310.630	42	3329.110	43	3342.024	50	3401.000	57
3306.670	42	3310.650	42	3329.114	44	3342.115	50	3402.000	57
3306.800	41	3310.800	41	3329.140	43	3342.230	50	3403.000	57
3306.840	41	3310.880	41	3329.144	44	3342.500	50	3410.000	57
3306.880	41	3316.180	46	3329.200	43	3350.024	51	3411.000	57
3306.884	41	3316.200	46	3329.210	43	3350.115	51	3415.020	57
3307.210	42	3318.600	46	3329.240	43	3350.230	51	3415.030	57
3307.230	42	3318.610	46	3329.500	43	3351.024	51	3415.120	57
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3418.000	56	3659.300	27	3684.137	35	3685.319	36	3686.563	33
3419.000	56	3659.400	26	3684.138	35	3685.328	29	3686.564	33
3420.000	56	3659.420	27	3684.139	35	3685.329	29	3686.565	33
3422.000	56	3659.430	27	3684.142	34	3685.330	29	3686.566	33
3423.000	56	3659.500	26	3684.143	34	3685.331	29	3686.567	33
3424.000	56	3659.520	27	3684.144	34	3685.332	29	3686.568	33
3425.000	56	3659.530	27	3684.145	34	3686.396	30	3686.569	33
3427.000	56	3659.590	27	3684.146	34	3686.397	30	3686.570	31
3428.000	56	3659.600	26	3684.147	34	3686.414	30	3686.571	31
3429.000	56	3659.620	27	3684.148	35	3686.469	28	3686.575	30
3433.000	56	3659.700	26	3684.149	35	3686.470	28	3686.576	30
3434.000	56	3659.710	27	3684.150	35	3686.471	28	3686.578	30
3435.000	56	3659.900	26	3684.151	35	3686.472	28	3686.579	30
3437.000	58	3684.020	34	3684.152	35	3686.473	32	3686.580	30
3438.000	58	3684.021	34	3684.153	35	3686.474	32	3686.581	30
3439.000	56	3684.022	34	3684.156	34	3686.475	32	3686.585	33
3439.010	56	3684.023	34	3684.157	34	3686.476	32	3686.586	33
3440.000	56	3684.024	34	3684.158	34	3686.477	32	3686.587	33
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3492.210	57	3684.034	34	3684.170	34	3686.487	32	3686.597	33
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3516.000	55	3684.051	34	3684.192	35	3686.504	32	3686.906	36
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3524.000	55	3684.058	34	3685.231	34	3686.511	32	3687.611	32
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3527.000	55	3684.061	34	3685.234	34	3686.514	32	3687.669	35
3528.000	55	3684.062	34	3685.235	34	3686.546	30	3687.670	35
3529.000	55	3684.063	34	3685.236	34	3686.547	30	3687.671	35
3530.000	56	3684.064	34	3685.237	34	3686.548	30	3687.672	35
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3539.000	58	3684.073	37	3685.240	34	3686.551	30	3687.680	35
3540.000	58	3684.128	34	3685.241	34	3686.552	30	3687.681	35
3541.000	58	3684.129	34	3685.242	34	3686.555	33	3687.682	35
3544.000	58	3684.130	34	3685.243	34	3686.556	33	3687.683	35
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3687.702	25	3688.696	28	3750.224	38	3750.900	39	3981.590	38
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3687.723	25	3688.790	36	3750.332	39	3750.934	39	4315.210	22
3687.780	35	3688.791	36	3750.334	39	3763.000	39	4315.300	22
3687.781	35	3689.177	24	3750.340	39	3763.200	39	4315.310	22
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3687.862	30	3689.211	31	3750.414	39	3981.001	37	5452.600	11
3687.863	30	3710.000	39	3750.420	39	3981.002	37	5453.600	11
3687.864	30	3713.000	39	3750.422	39	3981.003	37	5454.600	11
3687.865	30	3713.200	39	3750.424	39	3981.010	37	5455.600	11
3687.866	30	3714.000	39	3750.430	39	3981.020	37	5605.600	11
3687.867	30	3714.200	39	3750.432	39	3981.030	37	5665.600	11
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3687.872	30	3733.200	39	3750.450	38	3981.080	37	5884.600	11
3687.873	30	3734.000	39	3750.452	38	3981.090	37	5905.600	11
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3687.875	30	3735.000	39	3750.600	39	3981.110	38	6446.010	23
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3688.120	29	3744.200	39	3750.622	39	3981.175	38	7000.450	62
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7013.535	69	7452.035	68	7721.735	65	7855.560	63	8457.600	13
7014.535	69	7453.035	68	7721.835	65	7855.570	63	8485.610	12
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7054.035	69	7502.014	66	7820.600	61	7855.630	63	8605.600	12
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7063.971	64	7502.023	66	7820.620	61	7855.650	63	8607.100	40
7063.972	64	7502.024	66	7820.650	61	7855.660	63	8607.840	40
7063.975	64	7502.026	66	7820.670	61	7855.670	63	8608.600	12
7063.977	64	7502.034	66	7820.700	61	7855.680	63	8626.600	12
7063.978	64	7502.035	66	7820.710	61	7855.690	63	8645.600	12
7063.980	64	7502.036	66	7820.740	61	7855.700	63	8665.600	12
7063.987	64	7502.044	66	7820.750	61	7855.710	63	8684.600	12
7063.988	64	7502.045	66	7820.760	61	7855.720	63	8685.600	12
7073.100	64	7502.046	66	7820.770	61	7855.730	63	8686.600	12
7073.110	64	7502.054	66	7820.800	61	7855.740	63	8687.100	40
7073.120	64	7502.055	66	7820.810	61	7856.010	64	8687.840	40
7200.210	60	7502.056	66	7820.840	61	7856.020	64	8801.380	49
7200.211	60	7502.064	66	7820.850	61	7856.025	64	8804.600	12
7200.212	60	7502.066	66	7820.860	61	7856.050	64	8805.600	12
7200.213	60	7502.113	66	7821.600	61	7856.055	64	8806.600	12
7200.214	60	7502.114	66	7821.610	61	7856.060	64	8807.100	40
7200.221	60	7502.116	66	7821.620	61	7856.070	64	8807.140	40
7200.420	60	7502.123	66	7821.650	61	7856.080	64	8807.180	40
7200.430	60	7502.124	66	7821.670	61	7856.090	64	8807.250	40
7200.440	60	7502.126	66	7821.700	61	7856.100	64	8807.260	40
7200.450	60	7502.134	66	7821.710	61	7856.110	64	8808.600	12
7200.470	60	7502.136	66	7821.740	61	7856.120	64	8826.600	12
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7200.481	60	7502.146	66	7821.760	61	7856.140	64	8865.600	12
7200.490	60	7502.154	66	7821.770	61	7856.150	64	8880.600	12
7200.520	60	7502.156	66	7821.800	61	7856.160	64	8881.600	12
7245.000	68	7502.164	66	7821.810	61	7856.180	64	8884.600	12
7245.400	68	7502.166	66	7821.840	61	7856.190	64	8885.600	12
7247.000	67	7502.630	66	7821.850	61	7870.100	67	8886.600	12
7320.000	60	7502.660	66	7821.860	61	7870.110	67	8887.140	40
7320.100	60	7528.100	62	7830.100	61	7870.200	67	8887.150	40
7320.210	60	7528.110	62	7830.120	61	7870.210	67	9006.505	71
7320.220	60	7528.120	62	7830.200	61	7870.300	67	9006.605	71
7320.230	60	7528.130	62	7830.220	61	7870.310	67	9006.705	71
7320.425	60	7528.200	62	7830.250	61	7870.350	67	9006.805	71
7320.435	60	7528.250	62	7830.270	61	7870.400	67	9020.150	70
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7320.450	60	7528.900	62	7830.320	61	7925.010	69	9020.250	70
7320.490	60	7528.935	62	7830.330	61	8005.600	12	9020.270	70
7320.500	60	7528.960	62	7830.335	61	8006.600	12	9021.250	70
7320.510	60	7528.970	62	7830.340	61	8080.600	12	9021.255	70
7320.520	60	7551.000	65	7830.350	61	8084.600	12	9021.270	70
7320.530	60	7551.010	65	7830.370	61	8204.600	12	9021.275	70
7320.540	60	7551.020	65	7830.380	61	8205.600	12	9022.150	71
7320.550	60	7551.030	65	7830.400	61	8206.600	12	9022.170	71
7320.560	60	7600.100	68	7830.500	61	8207.170	40	9022.250	71
7320.570	60	7600.200	68	7830.550	61	8207.180	40	9022.270	71
7320.580	60	7600.300	68	7830.600	61	8208.600	12	9100.210	6
7320.590	60	7610.000	60	7830.650	61	8226.600	12	9101.210	6
7320.610	60	7611.000	60	7830.800	61	8245.600	12	9102.210	6
7320.700	60	7641.000	66	7830.850	61	8265.600	12	9103.210	6
7320.710	60	7643.000	66	7831.200	61	8284.600	12	9104.210	6
7320.720	60	7644.000	66	7831.210	61	8285.600	12	9105.210	6
7320.730	60	7645.000	66	7831.220	61	8286.600	12	9106.210	6
7320.740	60	7706.135	65	7831.230	61	8287.170	40	9107.210	6
7320.750	60	7709.135	65	7834.060	69	8405.610	12	9108.210	6
7320.760	60	7709.735	65	7834.080	69	8406.610	12	9110.210	6
7320.770	60	7709.835	65	7834.120	69	8450.600	13	9111.210	6
7320.820	60	7712.135	65	7855.310	63	8451.600	13	9112.210	6
7391.000	68	7715.135	65	7855.330	63	8452.600	13	9113.210	6
7396.000	68	7715.735	65	7855.500	63	8453.600	13	9114.210	6
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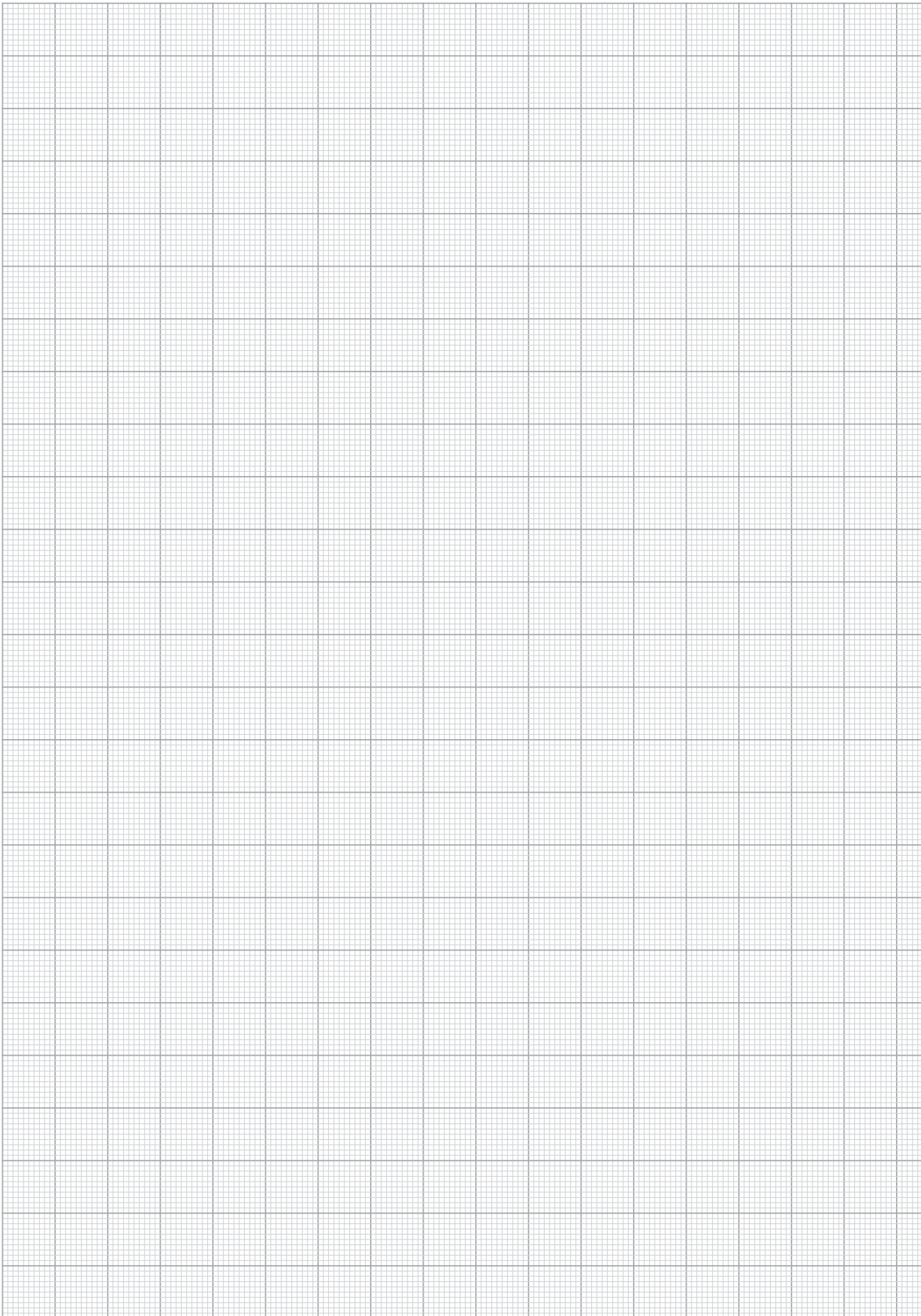
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